FORM 3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
NBU 1022-27A

2. TYPE OF WORK
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
NATURAL BUTTES

4. TYPE OF WELL
Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME
NATURAL BUTTES

6. NAME OF OPERATOR
KERR-MCGEE OIL & GAS ONSHORE, L.P.

7. OPERATOR PHONE
720 929-6587

8. ADDRESS OF OPERATOR
P.O. Box 173779, Denver, CO, 80217

9. OPERATOR E-MAIL
mary.mondragon@anadarko.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UTU-0473

11. MINERAL OWNERSHIP
FEDERAL ● INDIAN ○ STATE ○ FEE ○

12. SURFACE OWNERSHIP
FEDERAL ● INDIAN ○ STATE ○ FEE ○

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ○ (Submit Commingling Application) NO ●

19. SLANT
VERTICAL ● DIRECTIONAL ○ HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1058 FNL 413 FEL	NENE	27	10.0 S	22.0 E	S
Top of Uppermost Producing Zone	1058 FNL 413 FEL	NENE	27	10.0 S	22.0 E	S
At Total Depth	1058 FNL 413 FEL	NENE	27	10.0 S	22.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
413

23. NUMBER OF ACRES IN DRILLING UNIT
640

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
1000

26. PROPOSED DEPTH
MD: 8300 TVD:

27. ELEVATION - GROUND LEVEL
5437

28. BOND NUMBER
WYB000291

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
Water permit # 43-8496

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORCANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ☑ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER**
- ☑ **COMPLETE DRILLING PLAN**
- ☐ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)**
- ☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER**
- ☐ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)**
- ☑ **TOPOGRAPHICAL MAP**

NAME Kevin McIntyre	**TITLE** Regulatory Analyst I	**PHONE** 720 929-6226
SIGNATURE	**DATE** 09/03/2008	**EMAIL** Kevin.McIntyre@anadarko.com

API NUMBER ASSIGNED
43047500980000

APPROVAL

Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	12.25	9.625	0	1850		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 LT&C	1850	36.0			
	Cement Interval	**Top (MD)**	**Bottom (MD)**			
		0	1850			
		Cement Description	**Class**	**Sacks**	**Yield**	**Weight**
			Premium Foamed Cement	215	1.18	15.6

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	8300		
Pipe	**Grade**	**Length**	**Weight**			
	Grade I-80 LT&C	8300	11.6			
	Cement Interval	**Top (MD)**	**Bottom (MD)**			
		0	8300			
		Cement Description	**Class**	**Sacks**	**Yield**	**Weight**
			Premium Lite High Strength	380	3.38	11.0
			Pozzuolanic Cement	1340	1.31	14.3

API Well No: 43047500980000

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	August 23, 2008		
WELL NAME	NBU 1022-27A	TD	8,300' MD/TVD		
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	ELEVATION	5,437' GL KB 5,452'
SURFACE LOCATION	NENE 1058' FNL & 413' FEL, SEC.27, T10S, R22E			BHL	Straight Hole
	Latitude: 39.924208 Longitude: -109.417319		NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS and SURFACE), UDOGM, Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			12-1/4"	9-5/8", 36#, J-55, LTC	Air mist
Catch water sample, if possible, from 0 to 4,000'					
	Green River @	0,966'			
	Top of Birds Nest Water @	1308'			
	Mahogany @	1,732'			
		Preset f/ GL @ 1,850' MD			
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.					
Mud logging program TBD					Water/Fresh Water Mud 8.3-10.0 ppg
Open hole logging program f/ TD - surf csg			7-7/8"	4-1/2",11.6#, I-80 or equivalent LTC casing	
	Wasatch @	4,000'			
	Mverde @	6,281'			
	MVU2 @	7,130'			
	MVL1 @	7,779'			
	TD @	8,300'			Max anticipated Mud required 11.5 ppg

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3520	2020	453000
SURFACE	9-5/8"	0 to 1850	36.00	J-55	LTC	1.12	2.33	8.66
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 8300	11.60	I-80	LTC	2.48	1.28	2.39

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3569 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,500'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	380	60%	11.00	3.38
	TAIL	4,800'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1340	60%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____

Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne NBU 1022-27A.xls

NBU 1022-27A
NENE Sec. 27, T10S,R22E
UINTAH COUNTY, UTAH
UTU-0473

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

Formation	Depth
Uinta	0- Surface
Green River	966'
Bird's Nest	1308'
Mahogany	1732'
Wasatch	4000'
Mesaverde	6281'
MVU2	7130'
MVL1	7779'
TD	8300'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

Substance	Formation	Depth
	Green River	966'
	Bird's Nest	1308'
	Mahogany	1732'
Gas	Wasatch	4000'
Gas	Mesaverde	6281'
Gas	MVU2	7130'
Gas	MVL1	7779'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. **Proposed Casing & Cementing Program:**

Please see the Natural Buttes Unit SOP.

5. **Drilling Fluids Program:**

Please see the Natural Buttes Unit SOP.

6. **Evaluation Program:**

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8300' TD, approximately equals 5395 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3569 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please see Natural Buttes Unit SOP Onshore Order #2 – Air Drilling Variance
Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background
In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped

and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling

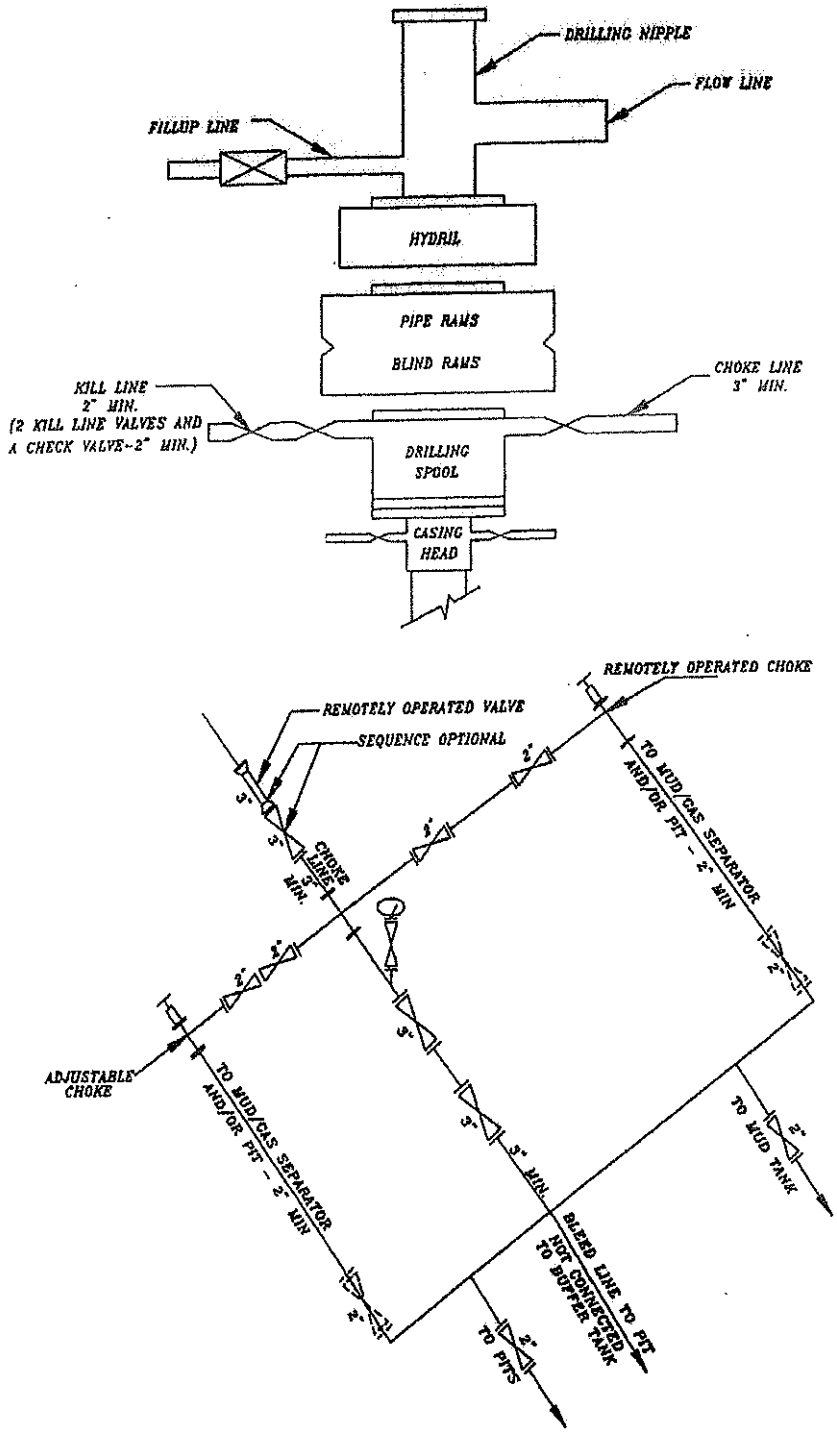
operation does not encounter productive formations.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above..

10. Other Information:

Please see Natural Buttes Unit SOP.

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

NBU 1022-27A
NENE Sec. 27,T10S,R22E
UINTAH COUNTY, UTAH
UTU-0473

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. **Planned Access Roads:**

Approximately 0.2 mi. +/- of new access road is proposed. Refer to Topo Map B.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

The access road was centerline flagged during time of staking.

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

Please see the Natural Buttes Unit SOP.

Refer to Topo Map D for the location of the proposed pipelines.

A 552' rights-of-way will be required. Approximately 552' of 4" steel pipeline is proposed from the location to the tie-in point in Section 26, T10S, R22E. Please refer to the Topo Map D. The pipeline will be constructed utilizing existing rights were possible and pulled into place using a rubber tired tractor. The pipeline will be butt-welded together.

Variances to Best Management Practices (BMPs) Requested:

Approximately 552' of 4" steel pipeline will be installed on surface within the access corridor for the well location. As a Best Management Practice (BMP), the pipeline would be buried within the access road corridor if possible. The construction of pipelines requires the corridor of 30 feet.

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

Interim Surface Reclamation Plan:

This exception is requested due to the current twin and multi-well program. If determined that this well will not be a candidate for either twinning &/or multi-well the operator shall spread the topsoil pile on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of **40 mil doublefelt**, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility Sec. 36, T9S, R20E,Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E *(Request is in lieu of filing Form 3160-5, after initial production).*

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

upon reclamation of the pit the following seed mixture will be used. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for ***drilled*** seed are:

Shadscale	8 lbs.
Black Sagebrush	8 lbs.
Needle and Thread Grass	4 lbs.
Indian Ricegrass	4 lbs.
Galleta Grass	4 lbs.

Operator shall call the BLM for the seed mixture when final reclamation occurs.

11. **Surface/Mineral Ownership:**

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. **Stipulations/Notices/Mitigation:**

Low profile tanks will be required (shadow gray color).

Proximity to creeks, ponds, or lakes: Bitter Creek.

13. **Other Information:**

A Class III archaeological survey and a paleontological survey have been performed and will be submitted.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. **Lessee's or Operator's Representative & Certification:**

Kevin McIntyre
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6226

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond #WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Kevin McIntyre

8/23/2008
Date

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-27A

SECTION 27, T10S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 11.2 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #1022-26D TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 180' TO THE PROPOSED #1022-26D AND THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 57.1 MILES.

API Well No: 43047500980000

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-27A

LOCATED IN UINTAH COUNTY, UTAH
SECTION 27, T10S, R22E, S.L.B.&M.

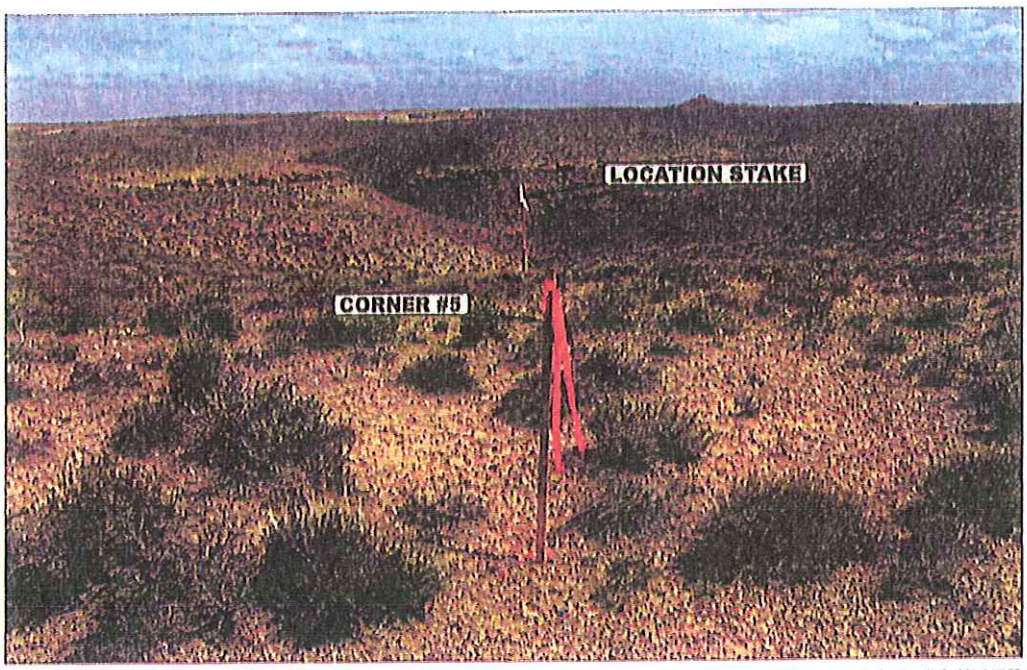


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE — CAMERA ANGLE: SOUTHEASTERLY

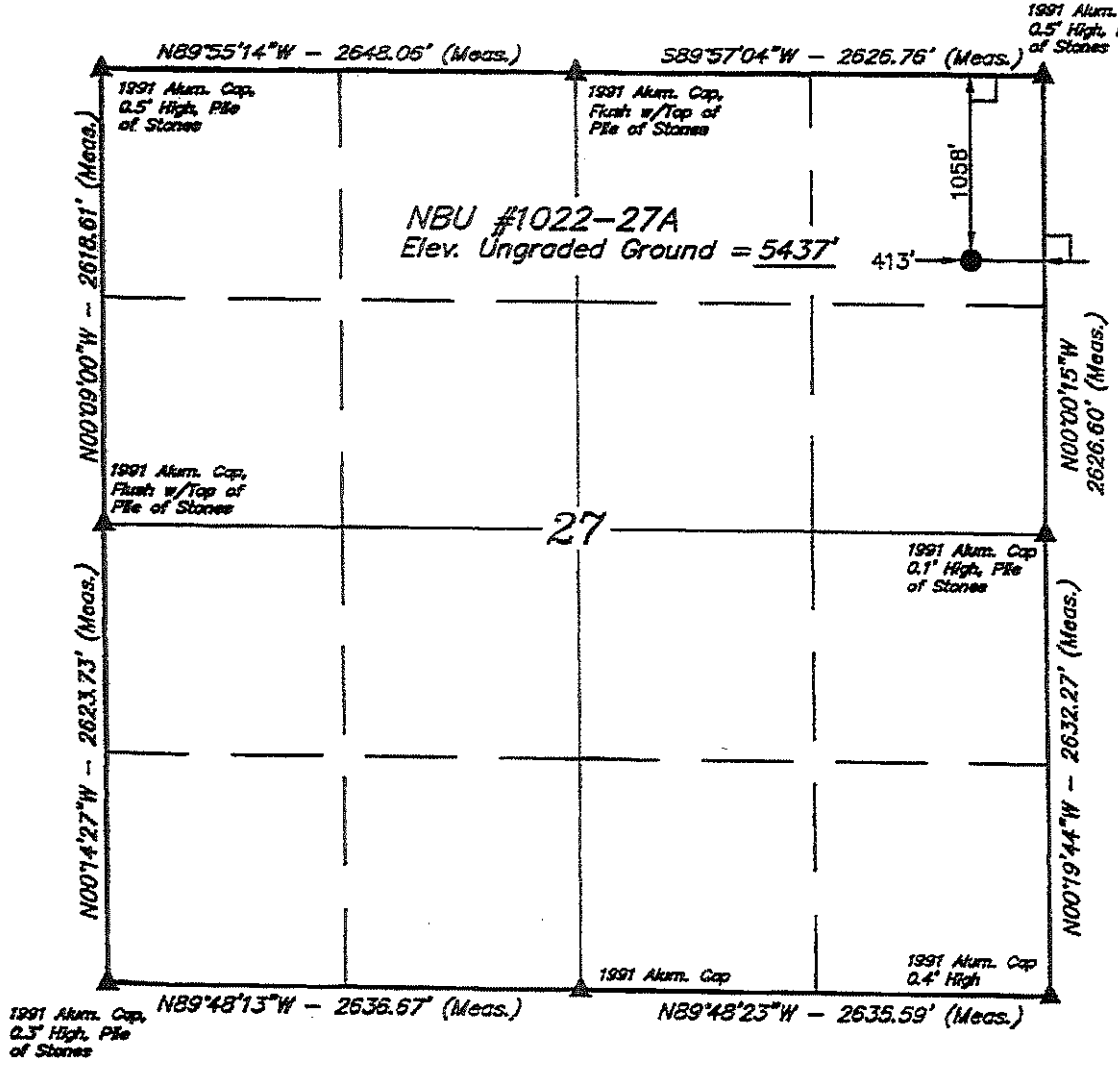
PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS — CAMERA ANGLE: SOUTHWESTERLY

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

- Since 1964 -

LOCATION PHOTOS	05 MONTH	01 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00		

T10S, R22E, S.L.B.&M.



LEGEND:

- = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 39°55'27.03" (39.924175)
LONGITUDE = 109°25'04.80" (109.418000)
(NAD 27)
LATITUDE = 39°55'27.15" (39.924208)
LONGITUDE = 109°25'02.35" (109.417319)

Kerr-McGee Oil & Gas Onshore LP

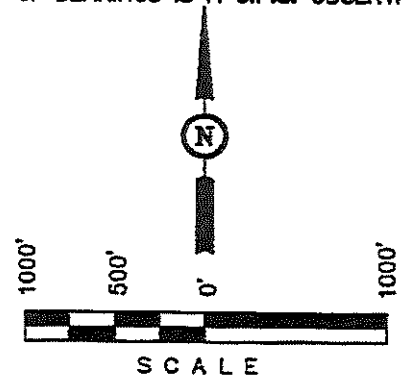
Well location, NBU #1022-27A, located as shown in the NE 1/4 NE 1/4 of Section 27, T10S, R22E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



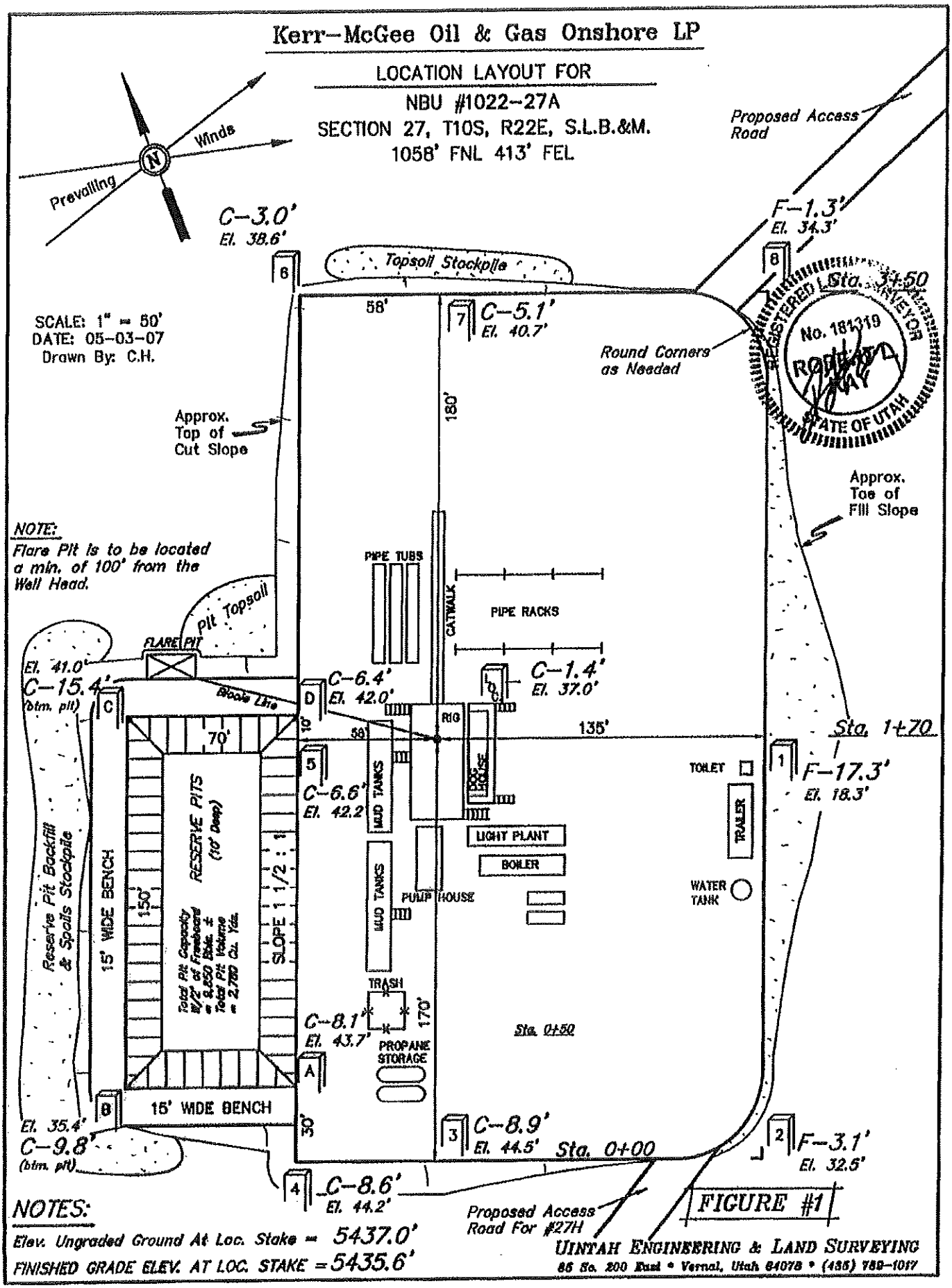
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'		DATE SURVEYED: 04-30-07	DATE DRAWN: 05-03-07
PARTY: L.K. J.A. C.H.		REFERENCES: G.L.O. PLAT	
WEATHER: WARM		FILE: Kerr-McGee Oil & Gas Onshore LP	


Kerr-McGee Oil & Gas Onshore LP
LOCATION LAYOUT FOR
NBU #1022-27A
SECTION 27, T10S, R22E, S.L.B.&M.
1058' FNL 413' FEL
Winds
Prevailing
N
Proposed Access Road
C-3.0'
El. 38.6'
F-1.3'
El. 34.3'
Topsoil Stockpile
Sta. 3+50
SCALE: 1" = 50'
DATE: 05-03-07
Drawn By: C.H.
58'
C-5.1'
El. 40.7'
Round Corners as Needed
No. 181319
REGISTERED LAND SURVEYOR
STATE OF UTAH
Approx. Top of Cut Slope
180'
Approx. Toe of Fill Slope
NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.
PIPE TUBS
CATWALK
PIPE RACKS
Pit Topsoil
FLARE PIT
El. 41.0'
C-15.4'
(btm. pit)
Blooie Line
C-6.4'
El. 42.0'
C-1.4'
El. 37.0'
RIG
10'
50'
135'
Sta. 1+70
70'
C-6.6'
El. 42.2
MUD TANKS
DOG HOUSE
TOILET
F-17.3'
El. 18.3'
LIGHT PLANT
BOILER
TRAILER
RESERVE PITS
(10' Deep)
Total Pit Capacity W/2' of Freeboard = 8,850 Bbls. ± Total Pit Volume = 2,780 Cu. Yds.
Reserve Pit Backfill & Spoils Stockpile
15' WIDE BENCH
150'
SLOPE 1 1/2 : 1
MUD TANKS
PUMP HOUSE
WATER TANK
TRASH
C-8.1'
El. 43.7'
170'
Sta. 0+50
PROPANE STORAGE
15' WIDE BENCH
30'
El. 35.4'
C-9.8'
(btm. pit)
C-8.9'
El. 44.5'
Sta. 0+00
F-3.1'
El. 32.5'
C-8.6'
El. 44.2'
Proposed Access Road For #27H
FIGURE #1
NOTES:
Elev. Ungraded Ground At Loc. Stake = 5437.0'
FINISHED GRADE ELEV. AT LOC. STAKE = 5435.6'
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

Kerr-McGee Oil & Gas Onshore LP

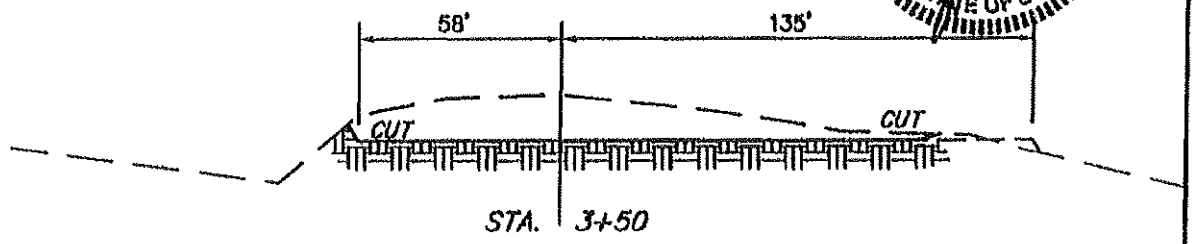
FIGURE #2

1" = 20'
X-Section Scale
1" = 50'

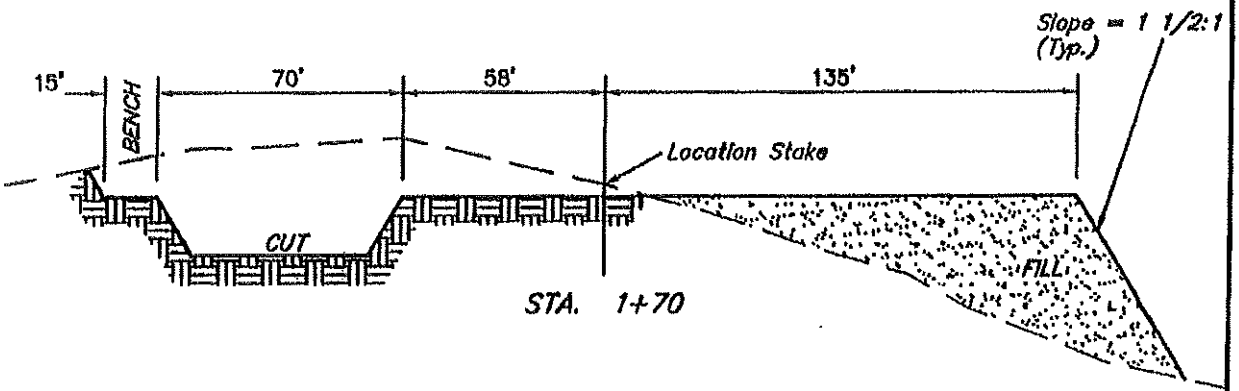
DATE: 05-03-07
Drawn By: C.H.

TYPICAL CROSS SECTIONS FOR
NBU #1022-27A
SECTION 27, T10S, R22E, S.L.B.&M.
1058' FNL 413' FEL

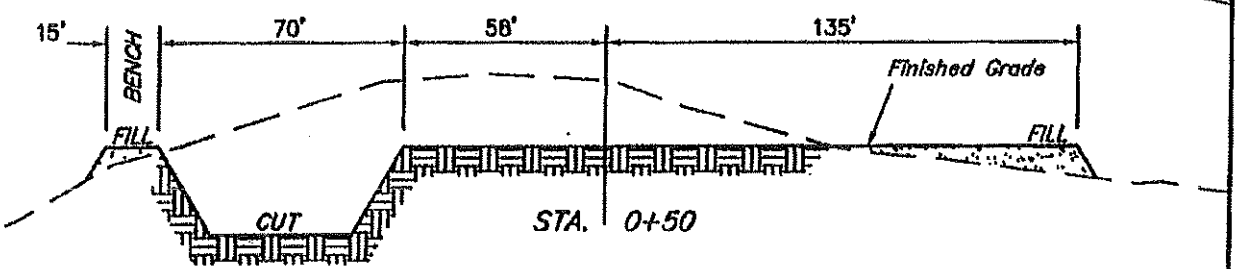
REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



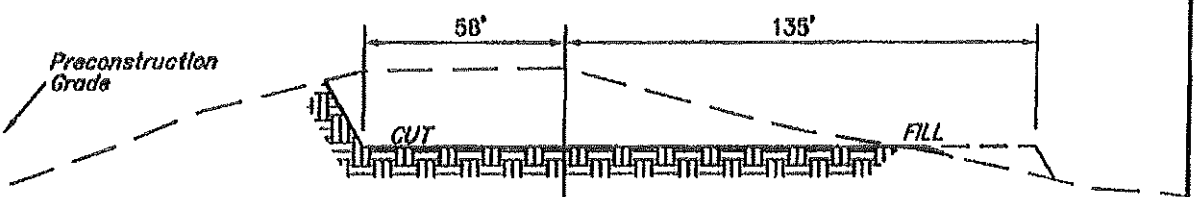
STA. 3+50



STA. 1+70



STA. 0+50



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,780 Cu. Yds.
Remaining Location = 10,810 Cu. Yds.

TOTAL CUT = 12,590 CU.YDS.
FILL = 7,740 CU.YDS.

EXCESS MATERIAL = 4,850 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,170 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 1,680 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-27A

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 27, T10S, R22E, S.L.B.&M.

PHOTO: VIEW OF TIE-IN POINT

CAMERA ANGLE: SOUTHWESTERLY

PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: SOUTHWESTERLY

- Since 1964 -

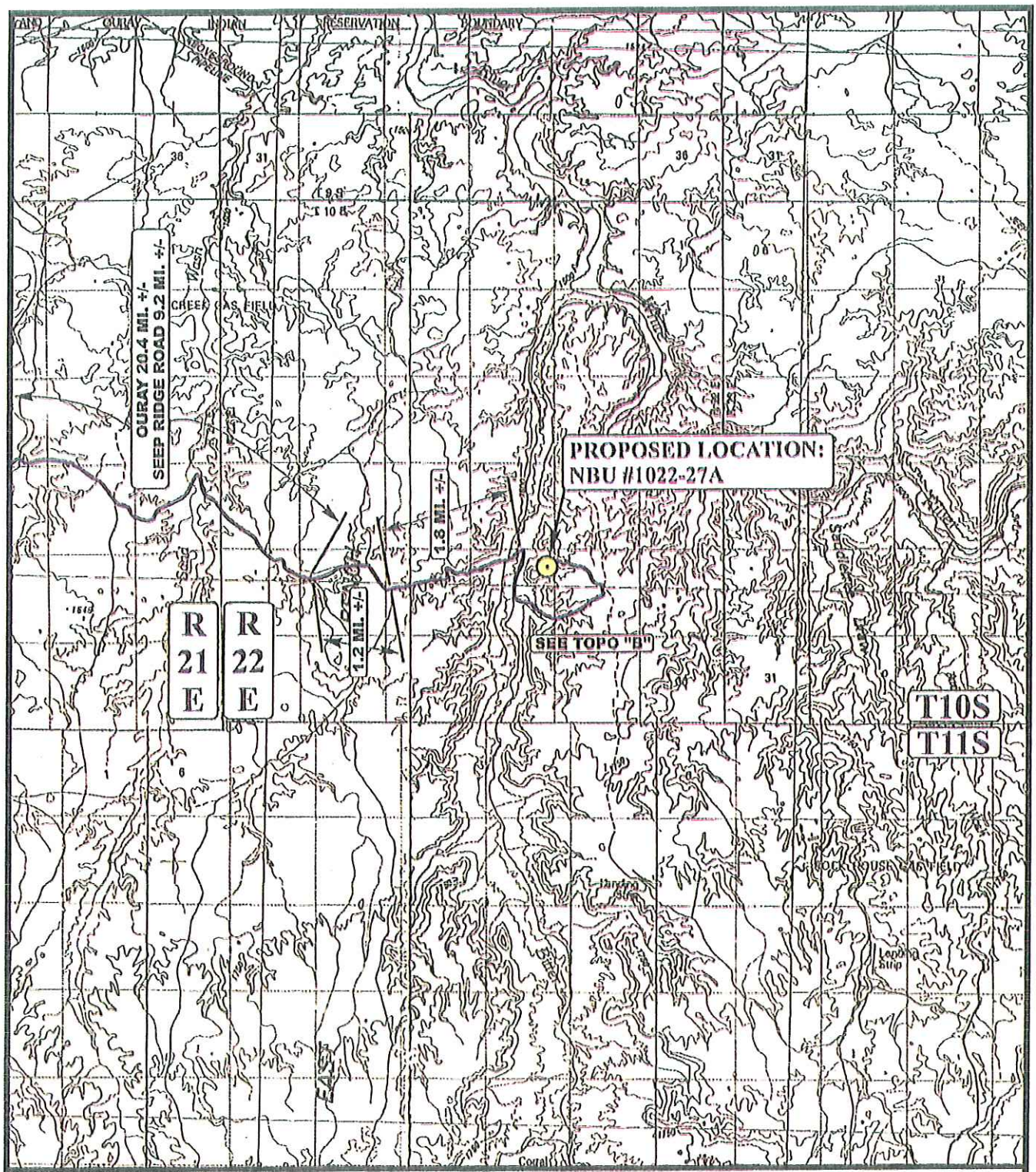
Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	05 MONTH	01 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00		

API Well No: 43047500980000



LEGEND:

PROPOSED LOCATION

Kerr-McGee Oil & Gas Onshore LP

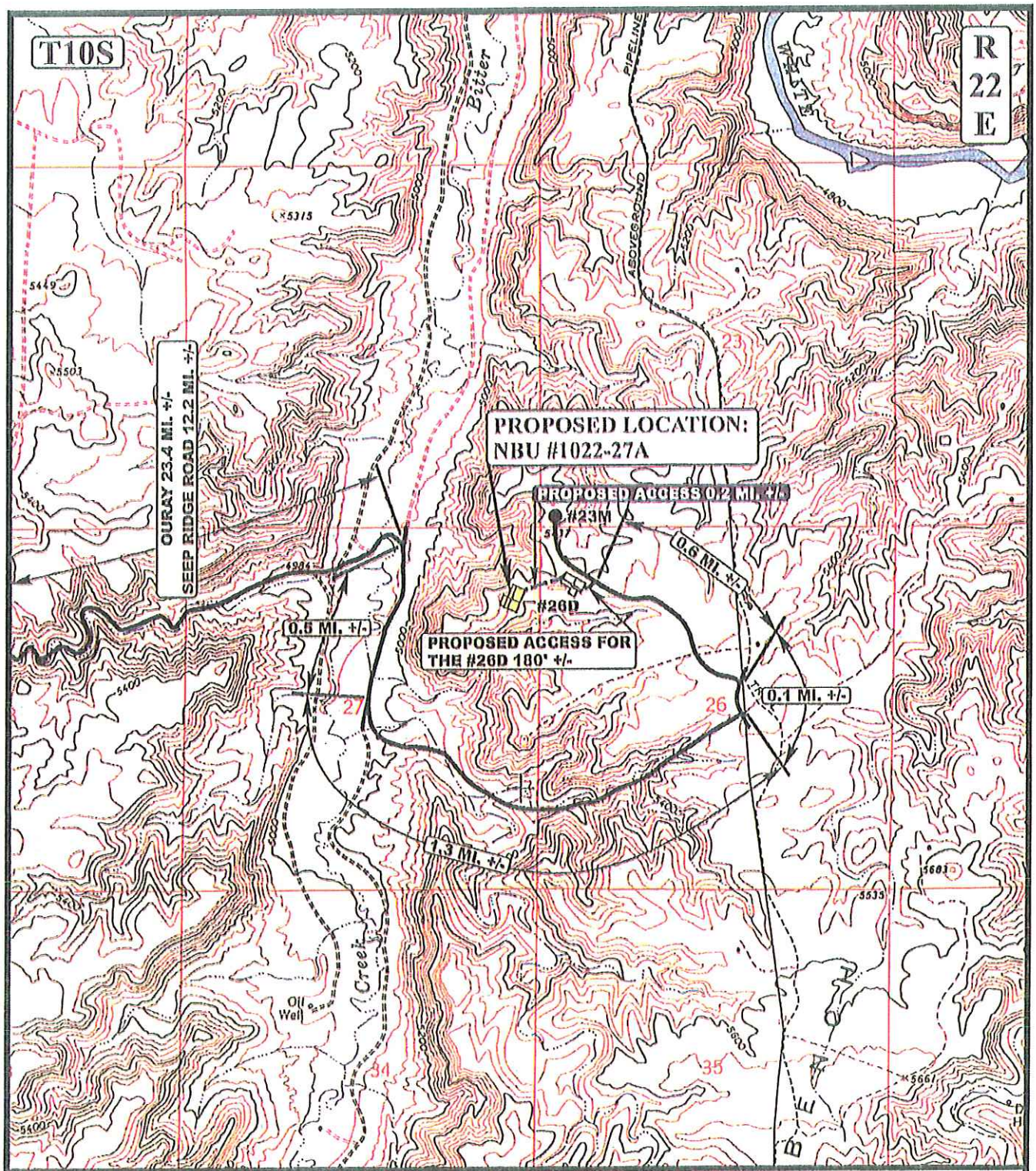
NBU #1022-27A
SECTION 27, T10S, R22E, S.L.B.&M.
1058' FNL 413' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP | 05 MONTH | 01 DAY | 07 YEAR | A TOPO

SCALE: 1:100,000 | DRAWN BY: C.P. | REVISED: 00-00-00

API Well No: 43047500980000



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-27A

SECTION 27, T10S, R22E, S.L.B.&M.

1058' FNL 413' FEL

Uintah Engineering & Land Surveying

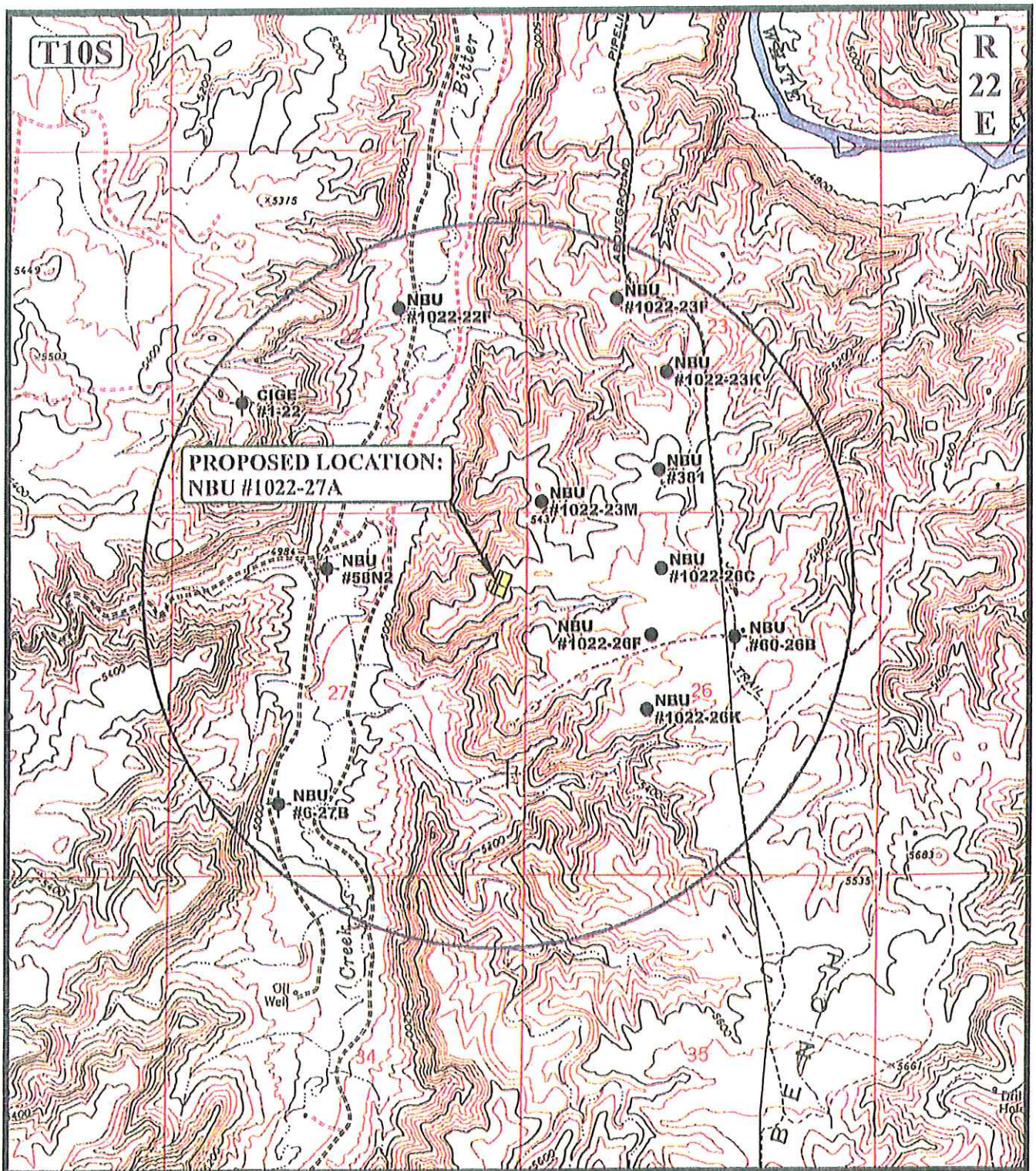
85 South 200 East Vernal, Utah 84078

(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP | 05 MONTH | 01 DAY | 07 YEAR | B TOPO

SCALE: 1" = 2000' | DRAWN BY: C.P. | REVISED: 00-00-00

API Well No: 43047500980000



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

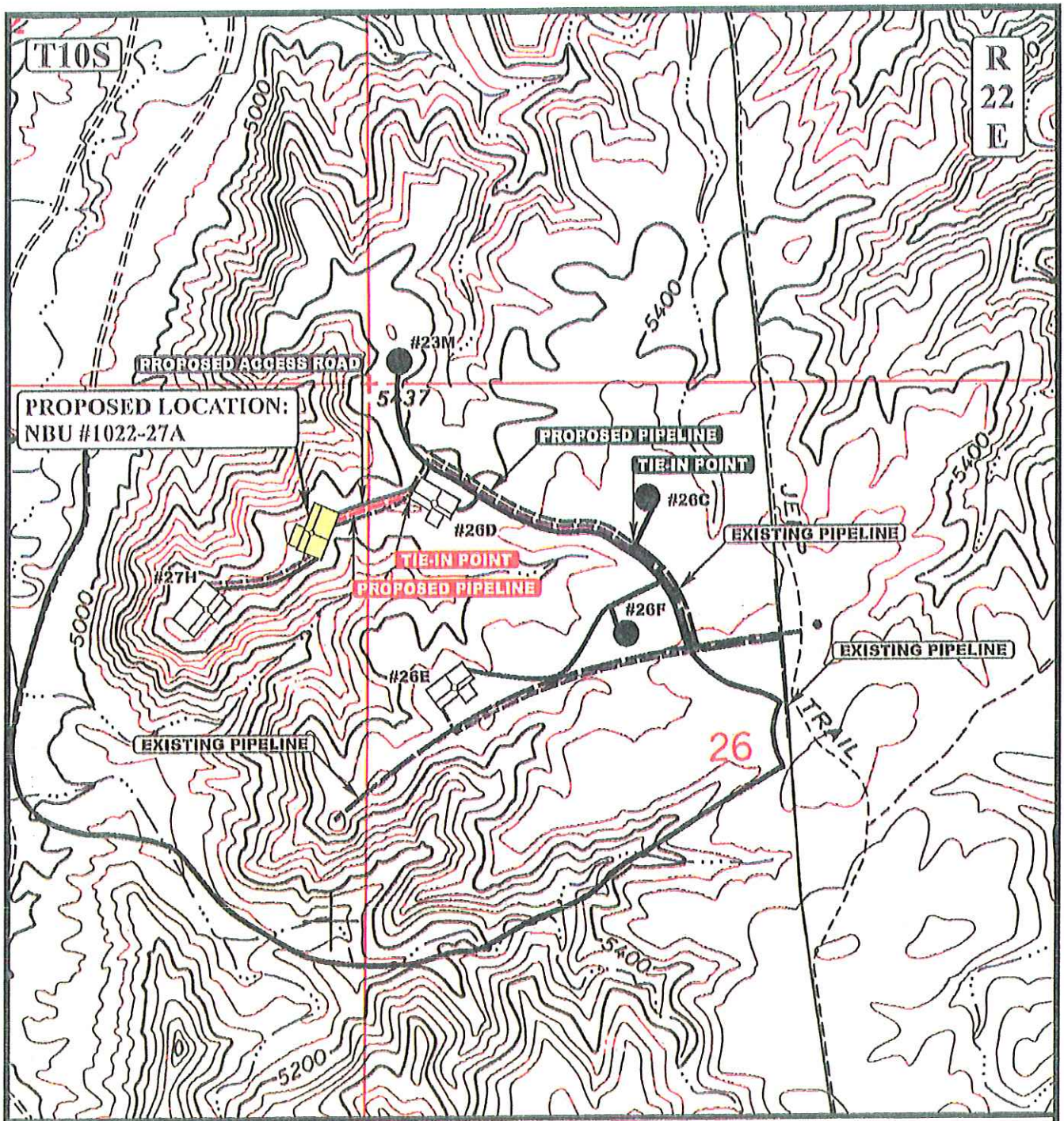
Kerr-McGee Oil & Gas Onshore LP

NBU #1022-27A
SECTION 27, T10S, R22E, S.L.B.&M.
1058' FNL 413' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	01 DAY	07 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		

API Well No: 43047500980000



APPROXIMATE TOTAL PIPELINE DISTANCE = 2,550' +/-

APPROXIMATE TOTAL PIPELINE DISTANCE = 552' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE
PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

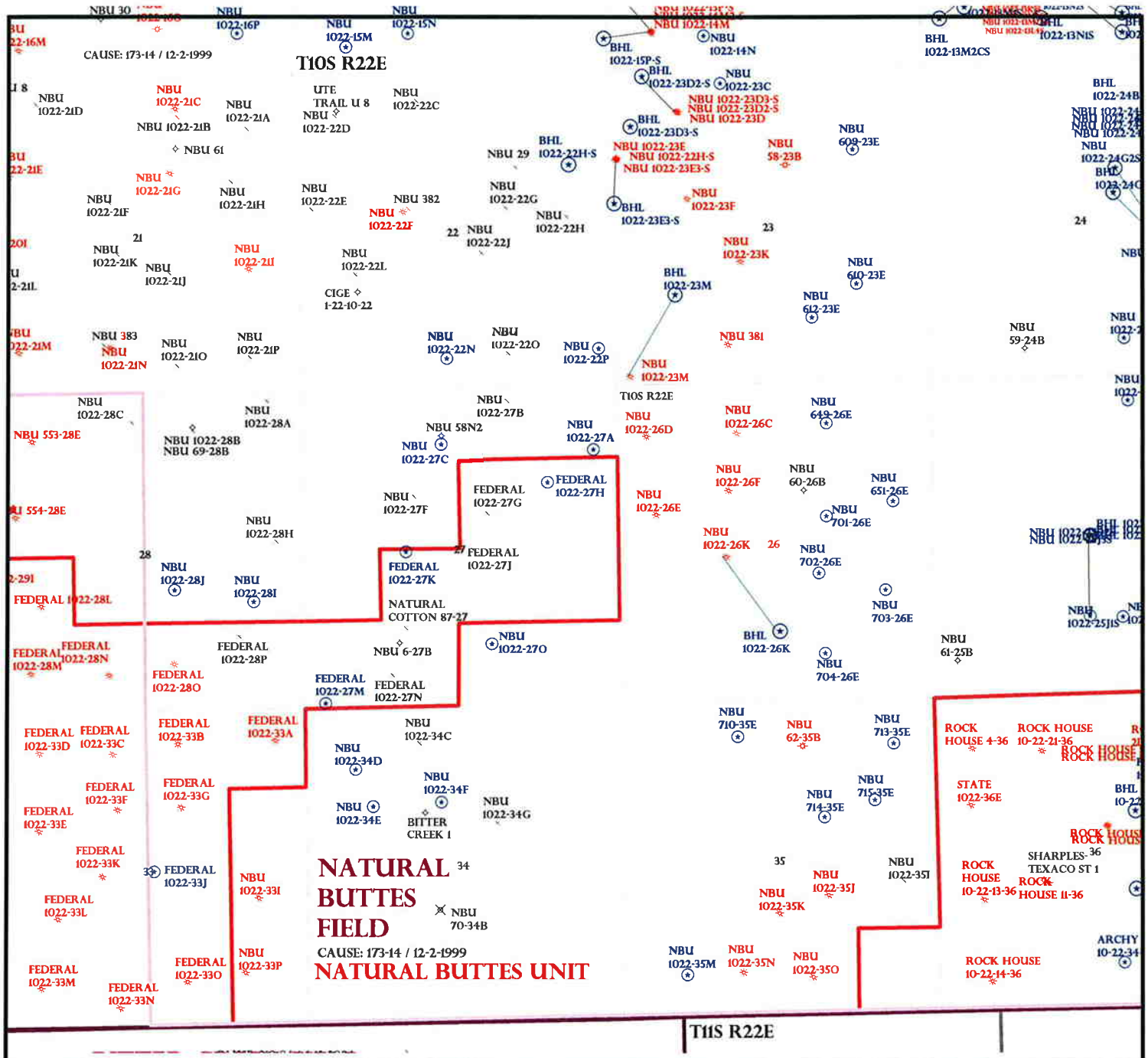
Kerr-McGee Oil & Gas Onshore LP

NBU #1022-27A
SECTION 27, T10S, R22E, S.L.B.&M.
1058' FNL 413' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	01 DAY	07 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.P.	REVISED: 00-00-00		

API Well No: 43047500980000



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 22,27,34,35 T.9S R. 21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N W E S

PREPARED BY: DIANA MASON
DATE: 26-AUGUST-2008

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

September 2, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-50098	NBU 1022-27A	Sec 27 T10S R22E 1058 FNL 0413 FEL
43-047-50095	NBU 1022-34E	Sec 34 T10S R22E 1687 FNL 1113 FWL
43-047-50094	NBU 1022-35M	Sec 35 T10S R22E 0683 FSL 1058 FWL
43-047-50093	NBU 1022-34F	Sec 34 T10S R22E 1632 FNL 2266 FWL
43-047-50080	NBU 922-33ET	Sec 33 T09S R22E 2446 FNL 0673 FWL
43-047-50084	NBU 1022-22N	Sec 22 T10S R22E 0515 FSL 2467 FWL
43-047-50086	NBU 1022-1P	Sec 01 T10S R22E 0310 FSL 0971 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:9-2-08

Kerr-McGee Oil & Gas Onshore LP
1099 18 STREET, SUITE 1200
DENVER, CO 80202

August 26, 2008

Mrs. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

RE: NBU 1022-27A
T10S-22E
Section 27: NENE
1058' FNL, 413' FWL
Uintah County, Utah

Dear Mrs. Mason:

Kerr-McGee Oil & Gas Onshore LP has submitted a permit to drill the captioned well to test the Wasatch and Mesaverde formations. The well is located at an exception location to Spacing Order 173-14. The well location was moved for topographic reasons. Kerr-McGee owns 100% of the leasehold within 460 feet of the exception location of the offset lands and has no objection to the exception location.

Kerr-McGee requests your approval of this exception location. If you have any questions, call me at 720-929-6262. Thank you for your assistance.

Sincerely,

Jason Rayburn
Landman

cc: Chris Latimer

JON M. HUNTSMAN, JR.
Governor
GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: NBU 1022-27A
API Well Number: 43047500980000
Lease Number: UTU-0473
Surface Owner: FEDERAL
Approval Date: 9/11/2008

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P. , P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of CAUSE: 173-14.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

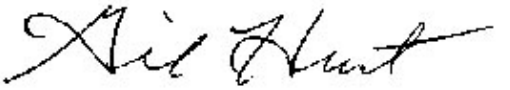
Notification Requirements:
Notify the Division with 24 hours of spudding the well.
- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.
- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

API Well No: 43047500980000

Reporting Requirements:
All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:



Gil Hunt
Associate Director, Oil & Gas

API Well No: 43047500980000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 9/7/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: September 03, 2009

By: Dustin Doucet

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 9/3/2009

RECEIVED September 03, 2009

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047500980000

API: 43047500980000
Well Name: NBU 1022-27A
Location: 1058 FNL 0413 FEL QTR NENE SEC 27 TWNP 100S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 9/15/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 9/3/2009
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, LP

Date: September 03, 2009

By: 

RECEIVED September 03, 2009

API Well No: 43047500980000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/17/2010	☐ ACIDIZE	✓ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the surface casing size for this well from FROM: 9-5/8" TO: 8-5/8" due to a revised drilling procedure. The production casing will still be cemented it's entire length to the surface. Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 11, 2010

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 5/6/2010

RECEIVED May 06, 2010

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	May 6, 2010	
WELL NAME	NBU 1022-27A		TD	8,300' MD/TVD	
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5,436'
SURFACE LOCATION	NE/4 NE/4 1,058' FNL 413' FEL	Sec 27 T 10S R 22E		BHL	Straight Hole
	Latitude: 39.924175	Longitude: -109.418000	NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BLM (SURFACE), UDOGM, Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			11"	8-5/8", 28#, IJ-55, LTC	Air mist
	Green River @	966'			
	Top of Birds Nest Water @	1,308'			
	Mahogany @	1,732'			
	Preset f/ GL @	1,875' MD			
			7-7/8"	4-1/2" 11.6# I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.6 ppg
	Wasatch @	4,000'			
	Mverde @	6,281'			
	MVU2 @	7,130'			
	MVL1 @	7,779'			
	TD @	8,300'			Max anticipated Mud required 11.6 ppg

All water flows encountered while drilling will be reported to the appropriate agencies.

Note: 11" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Mud logging program TBD

Open hole logging program from TD - surf csg

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3,390	1,880	348,000
SURFACE	8-5/8"	0	to	1875	28.00	IJ-55	LTC	1.07	2.14	6.56
								7,780	6,350	201,000
PRODUCTION	4-1/2"	0	to	8300	11.60	I-80	LTC	2.45	1.27	2.39

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.87

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,087 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 4,913 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	40		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite	140	35%	11.00	3.82
			+.25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	150	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,500'	Premium Lite II + 3% KCl + 0.25 pps	310	60%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,800'	50/50 Poz/G + 10% salt + 2% gel	1,340	60%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utililzed.

DRILLING ENGINEER: _____ **DATE:** _____

John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____

John Merkel / Lovel Young

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **KERR-McGEE OIL & GAS ONSHORE, L. P.**

Well Name: **NBU 1022-27A**

Api No: **43-047-50098** Lease Type: **FEDERAL**

Section **27** Township **10S** Range **22E** County **UINTAH**

Drilling Contractor **PETE MARTIN DRLG** RIG # **BUCKET**

SPUDDED:

Date **05/19/2010**

Time **9:00 AM**

How **DRY**

Drilling will Commence:

Reported by **GARRETT EATON**

Telephone # **(435) 219-1439**

Date **05/20/2010** **Signed** **CHD**

API Well No: 43047500980000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 5/19/2010	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX.
SPUD WELL LOCATION ON MAY 19, 2010 AT 09:00 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 24, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 5/20/2010

RECEIVED May 20, 2010

API Well No: 43047500980000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 5/23/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
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	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PROPETRO AIR RIG ON MAY 21, 2010. DRILLED 11" SURFACE HOLE TO 1900'. RAN 8 5/8" 28# J-55 SURFACE CSG. PUMP 140 BBLS FRESH WATER PUMP 20 BBLS GEL WATER. LEAD CEMENT W/ 170 SX CLASS G HI FILL @ 11.0 PPG, 3.82 YD. TAILED CEMENT W/ 200 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 113.8 BBLS WATER. 15 BBLS OF LEAD TO SURFACE W/ 500 PSI OF LIFT. LAND PLUG 1000 PSI, FLOAT HELD. PUMP 125 SX SAME CEMENT DOWN 1". CEMENT TO SURFACE. CEMENT FELL. WILL TOP OFF W/ PETE MARTIN DRILLING. WORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 26, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 5/25/2010

RECEIVED May 25, 2010

API Well No: 43047500980000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

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FOOTAGES AT SURFACE: 1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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✓ DRILLING REPORT Report Date: 5/23/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
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Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 26, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 5/25/2010

RECEIVED May 25, 2010

API Well No: 43047500980000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6007 Ext

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QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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✓ DRILLING REPORT Report Date: 8/11/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
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	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 1900' TO 8450' ON AUGUST 9, 2010. RAN 4 ½" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS SPACER, LEAD CEMENT W/ 351 SX CLASS G PREM LITE @ 11.7 PPG, 2.5 YD. TAILED CEMENT W/ 1010 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YD. DISPLACED W/ 130 BBLS CLAYTREAT WATER, BUMPED PLUG @ 2800 PSI, FINAL LIFT 2300 PSI, 20 BBLS SPACER BACK TO PIT. EST TOP OF TAIL @ 3500'. RD CEMENTERS AND CLEANED PITS. RELEASED PIONEER RIG #69 ON AUGUST 11, 2010 @ 1700 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
August 16, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 8/12/2010

API Well No: 43047500980000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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✓ DRILLING REPORT Report Date: 8/29/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
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	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON AUGUST 29, 2010 AT 8:57 A.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
August 30, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 8/30/2010

RECEIVED August 30, 2010

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU473

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. UTU63047A

2. Name of Operator KERR-MCGEE OIL&GAS ONSHORE LP Contact: ANDY LYTLE Mail: andrew.lytle@anadarko.com

8. Lease Name and Well No. NBU 1022-27A

3. Address P.O. BOX 173779 DENVER, CO 80217

3a. Phone No. (include area code) Ph: 720-929-6100

9. API Well No. 43-047-50098

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NENE 1058FNL 413FEL 39.92417 N Lat, 109.41800 W Lon

At top prod interval reported below NENE 1058FNL 413FEL 39.92417 N Lat, 109.41800 W Lon

At total depth NENE 1058FNL 413FEL 39.92417 N Lat, 109.41800 W Lon

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 27 T10S R22E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded 05/19/2010

15. Date T.D. Reached 08/09/2010

16. Date Completed ☐ D & A ☒ Ready to Prod. 08/29/2010

17. Elevations (DF, KB, RT, GL)* 5436 GL

18. Total Depth: MD 8450 TVD

19. Plug Back T.D.: MD 8394 TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR/CBL-HDIL/ZDL/CNGR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☒ No ☐ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
11.000	8.625 J55	28.0		1884		495			
7.875	4.500 I80	11.6		8438		1361			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7581							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	WASATCH	5250	5256	5250 TO 5256	0.360	24	OPEN
B)	MESAVERDE	6624	8300	6624 TO 8300	0.360	94	OPEN
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5250 TO 8300	PUMP 4,941 BBLS SLICK H20 & 176,533 LBS 30/50 SAND.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/29/2010	09/02/2010	24	→	0.0	961.0	480.0			FLOWS FROM WELL
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas:Oil Ratio**	**Well Status**	
20/64	506 SI	1109.0	→	0	961	480		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas:Oil Ratio**	**Well Status**	
			→						

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OCT 13 2010
DIV. OF OIL, GAS & MINING

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #94136 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER	1026				
BIRD'S NEST	1306				
MAHOGANY	1711				
WASATCH	4011				
MESAVERDE	6247	8450	TD		

32. Additional remarks (include plugging procedure):
ATTACHED IS THE DRILLING/COMPLETION CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #94136 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

Name *(please print)* ANDY LYTLE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 10/05/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 5/9/2010	End Date: 8/11/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/21/2010	20:00 - 21:00	1.00	DRLSUR	01	B	P		MIRU
	21:00 - 0:00	3.00	DRLSUR	02	B	P		SPUD WELL 5-21-2010 @ 2100 DRILL F/ 40' - 200' WOB 5-8 ROT 45-55 GPM 400 DHR 68 NO LOSSES
5/22/2010	0:00 - 16:00	16.00	DRLSUR	02	B	P		DRILL F/ 200' - 1900' WOB 8-12 ROT 45-65 DHR 94 GPM 550 NO LOSSES LAST SURVEY 1.4 DEG T.D. WELL 5-22-2010 @ 1600
	16:00 - 19:00	3.00	DRLSUR	08	A	Z		WORK ON LOSE BOLTS ON THE DERRICK, REPLACE HAMMER UNION ON MUD LINE
	19:00 - 20:00	1.00	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO TRIP
	20:00 - 23:00	3.00	DRLSUR	06	A	P		LDDS BREAK BIT AND MUD MOTOR
	23:00 - 0:00	1.00	DRLSUR	12	A	P		RIG UP TO RUN CASING
5/23/2010	0:00 - 3:00	3.00	DRLSUR	12	C	P		RUN 42 JOINTS 8.625 CASING SHOE AT 1870' BAFFLE AT 1826'
	3:00 - 4:00	1.00	DRLSUR	12	B	P		RIG DOWN AFTER RUNNING CASING AND RIG UP CEMENTERS RELEASE RIG 5-23-2010 @ 0400
	4:00 - 6:00	2.00	DRLSUR	12	E	P		TEST LINES TO 2000' PSI, PUMP 140 BBLS OF H20 , PUMP 20 BBLS OF GEL WATER. PUMP 170 (115 BBLS) SX OF 11#, 3.82 YD, 23 GAL SX HI FILL LEAD CEMENT. PUMP 200 SX (40.9 BBLS) OF 15.8#, 1.15 YD, 5 GAL/SK TAIL CEMENT, DROP PLUG ON FLY AND DISPLACE W/ 113.8 BBLS OF 8.3# H20, 15BBLS OF LEAD TO SURFACE W/ 500 PSI OF LIFT @ 5 BBLS/MIN. W/ LAND PLUG 1000 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 125 SX (25.6 BBLS) OF 4% CALC 15.8# 1.15 YD, 5 GAL/SK CEMENT DOWN 1" CEMENT TO SURFACE. CEMENT FELL 12 FT' WILL TOP OFF WITH PETE MARTIN DRILLING
8/1/2010	12:00 - 0:00	12.00	RDMO	01	E	P		RDRT FLOOR, KELLY, PUMPS, PITS, CRANE ON LOCATION @ 17:00 ASSISTED SCOPING DOWN DERRICK ,R/D FLARE LINES, WATER,AIR,ELECTRICAL,HYDRAULICS
8/2/2010	0:00 - 6:00	6.00	RDMO	01	E	P		RDRT MISC ,PREPARE RIG F/ MOVE
	6:00 - 10:30	4.50	RDMO	01	F	P		SAFETY MEETING W/ RIG CREW, WEST ROC, J&C CRANE ,MOUNTAIN WEST ,LOAD OUT TRUCKS, MOVE 11 MILES
	10:30 - 0:00	13.50	MIRU	01	B	P		SET SUB, Y BASE ,MUD BOAT ,CARRIER,PITS ,PUMPS,WATER TANK ,LIGHT PLANT, RURT , FUEL ,AIR ,ELECRTICAL, HYDRAULICS ,RAISE DERRICK HALF MAST,SCOPE DERRICK UP W/ CRANE ASSIST,R/U FLOOR, PASON ,WATER, P/U KELLY , 6 BED TRUCKS, 10 HAUL TRUCKS ,2-FORKLIFTS & CRANE ON LOCATION @ 06:00 ,TRUCKS RELEASED @ 15:00 ,CRANE RELEASED @ 18:00
8/3/2010	0:00 - 1:00	1.00	MIRU	01	B	P		R/U FLARE LINES
	1:00 - 4:00	3.00	MIRU	14	A	P		NIPPLE UP BOP
	4:00 - 9:00	5.00	MIRU	15	A	P		SAFETY MEETING W/ B&C QUICK TEST ,R/U & TEST FLOOR VALVES,UPPER & LOWER KELLY VALVES ,INSIDE & OUT SIDE KILL LINE ,CHOKE & HCR VALVES ,PIPE & BLIND RAMS ,CHOKE MANIFOLD 250 PSI F/ 5 MIN / 5000 PSI F/ 10 MIN ,TEST ANNULAR 250 PSI F/ 5 MIN /2500 PSI F/ 10 MIN ,CASING TO 1500 PSI F/ 30 MIN R/D QUICK TEST

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 5/9/2010	End Date: 8/11/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:00 - 13:00	4.00	MIRU	06	A	P		SAFETY MEETING W/ KIMZEY ,R/U & P/U GT-1 RERUN BIT ,.21 GPR / STRAIGHT MOTOR ,BHA 33 JTS DP
	13:00 - 13:30	0.50	MIRU	07	A	P		RIG SERVICE & CHANGE OUT SLIP DIES
	13:30 - 14:30	1.00	MIRU	06	A	P		FINISH P/U DRILLSTRING TO 1714' ,R/D KIMZEY
	14:30 - 16:30	2.00	MIRU	09	A	P		CUT & SLIP 125' DRILL LINE
	16:30 - 19:00	2.50	PRPSPD	23		P		PRESPUD INSPECTION ,PREPARE RIG F/ SPUD , INSTALL DRILLING RUBBER ,DRIVE BUSHINGS ,SECURE STACK
	19:00 - 21:30	2.50	DRLPRO	02	F	P		DRILL CEMENT ,F.E. & OPEN HOLE F/ 1730' TO 1914'
	21:30 - 22:30	1.00	DRLPRO	02	A	P		SPUD FORMATION @ 21:30 8/3/2010 ,DRILL NEW HOLE F/ 1914' TO 1964'
	22:30 - 23:00	0.50	DRLPRO	05	C	P		CIRC BOTTOMS UP
	23:00 - 0:00	1.00	DRLPRO	06	A	P		TOOH F/ DIRECTIONAL TOOLS
8/4/2010	0:00 - 1:00	1.00	DRLPRO	06	A	P		FINISH TOOH F/ DIR TOOLS
	1:00 - 2:30	1.50	DRLPRO	06	A	P		P/U Q506FBIT, DIRECTIONAL TOOLS & ORIENTATE
	2:30 - 6:00	3.50	DRLPRO	06	A	P		TIH
	6:00 - 16:00	10.00	DRLPRO	02	B	P		DRILL F/ 1964' - 3032' 1068'/10 HR.106.8'/HR WOB 15-18 ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 95/85/90, OFF BOTTOM/ON BOTTOM 890/1200 ,DIFF 200-350 ,WATER W/ GEL & POLY SWEEPS SLID 20' TOTAL @ 350 AZM.
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 20:30	4.00	DRLPRO	02	B	P		DRILL F/ 3032' - 3473' 441'/4 HR.110.3'/HR WOB 18 - 20K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 98/87/93, OFF BOTTOM/ON BOTTOM 890/1200 ,DIFF 200-350 ,WATER W/ GEL & POLY SWEEPS SLID 10' @ 340AZM.
	20:30 - 21:00	0.50	DRLPRO	08	A	Z		WORK ON THE CROWN-O-MATIC
	21:00 - 0:00	3.00	DRLPRO	02	B	P		DRILL F/ 3473' - 3750' 277'/3 HR. 92.3'/HR WOB 18 - 20K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 102/89/95, OFF BOTTOM/ON BOTTOM 975/1300 ,DIFF 200-350 ,WATER W/ GEL & POLY SWEEPS SLID 10' @ 330 AZM.
8/5/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 3750' - 4400' 650'/6 HR. 108.3'/HR WOB 18 - 20K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 107/95/100, OFF BOTTOM/ON BOTTOM 1000/1300 ,DIFF 200-350 ,WATER W/ GEL & POLY SWEEPS SLID 15' @ 330 AZM.
	6:00 - 11:00	5.00	DRLPRO	02	B	P		DRILL F/ 4400' - 4958' 558'/5 HR. 111.6'/HR WOB 18 - 20K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 120/100/112, OFF BOTTOM/ON BOTTOM 1050/1375 ,DIFF 200-350 ,WATER W/ GEL & POLY SWEEPS SLID 5' @ 330 AZM.
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE WORK THE PIPE RAMS
	11:30 - 0:00	12.50	DRLPRO	02	B	P		DRILL F/ 4958' - 5840' 882'/12.5 HR. 70.1'/HR WOB 18 - 20K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 135/123/130, OFF BOTTOM/ON BOTTOM 1200/1530 ,DIFF 200-350 ,WATER W/ GEL & POLY SWEEPS SLID 40' @ 330 AZM. STARTED MUDDING UP SLOWLY @ 5650' 30/VIS 8.7/WT.
8/6/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 5840' - 6124' 284'/6 HR. 47.3'/HR WOB 18 - 20K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 138/125/130, OFF BOTTOM/ON BOTTOM 1350/1725 ,DIFF 200-350 , SLID 13' @ 330 AZM. ' 34/VIS 9.7/WT.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 5/9/2010	End Date: 8/11/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 13:00	7.00	DRLPRO	02	B	P		DRILL F/ 6124' - 6535', 411'/7 HR. 58.7'/HR WOB 18 - 20K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 147/142/130, OFF BOTTOM/ON BOTTOM 1500/1825 ,DIFF 200-350 , SLID 13' @ 330 AZM. ' 36/VIS 10.1/WT. LOST 125 BBL.@ 6377' - 6535'
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SERVICE /WORK PIPE RAMS AND THE ANNULAR
	13:30 - 14:00	0.50	DRLPRO	08	B	Z		WORK ON THE PUMPS
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILL F/ 6535' - 7030', 495'/10 HR. 49.5'/HR WOB 20-22K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 152/138/146, OFF BOTTOM/ON BOTTOM 1800/2180 ,DIFF 200-350 , SLID 20' @ 330 AZM. ' 36/VIS 10.4/WT. 2% LCM
8/7/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 7030' - 7324', 296'/6 HR. 49.3'/HR WOB 20-22K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 155/140/148, OFF BOTTOM/ON BOTTOM 1825/2175 ,DIFF 200-350 , SLID 17' @ 330 AZM. ' 36/VIS 10.4/WT. 2% LCM
	6:00 - 16:00	10.00	DRLPRO	02	B	P		DRILL F/ 7324' -7767' , 443'/10 HR. 44.3'/HR WOB 20-22K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 163/142/154, OFF BOTTOM/ON BOTTOM 1900/2175 ,DIFF 200-350 , SLID 23' @ 330 AZM. ' 38/VIS 10.8/WT. 2% LCM
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRILL F/ 7767' - 8020 , 253'/7.5 HR. 33.7'/HR WOB 20-22K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 168/145/158, OFF BOTTOM/ON BOTTOM 1925/2200 ,DIFF 200-350 , SLID 9' @ 330 AZM. ' 39/VIS 10.8/WT. 2% LCM
8/8/2010	0:00 - 4:00	4.00	DRLPRO	02	B	P		DRILL F/ 8020' -8157' , 137'/4 HR. 34.3'/HR WOB 20-22K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 168/145/158, OFF BOTTOM/ON BOTTOM 2000/2325 ,DIFF 200-350 , SLID 19' @ 330 AZM. ' 42/VIS 11.1/WT. 2% LCM
	4:00 - 4:30	0.50	DRLPRO	05	C	S		CIRCULATE TO PUMP A 40 BBL. 12.2 PILL
	4:30 - 8:30	4.00	DRLPRO	06	I	X		TOH TO REPAIR A HOLE IN THE SURFACE CASING
	8:30 - 13:00	4.50	DRLPRO	22	J	X		CLEANED THE CELLAR, CUT THE CONDUCTOR PIPE OFF AT GROUND LEVEL AND BROKE THE CEMENT TO EXPOSE THE HOLE. DUG DOWN A COUPLE OF FOOT MORE. WELDED THE PATCH ON THE SURFACE CASING.
	13:00 - 20:00	7.00	DRLPRO	06	I	X		BROKE CIRC @ SHOE TIH BROKE CIRCULATION 5000'. WE WASHED THROUGH BRIDGES @ 7000' - 7200'. WASHED DOWN THE LAST 5 JTS. LOST APP 80 BBL. OF MUD ON THE TRIP.
	20:00 - 0:00	4.00	DRLPRO	02	B	P		DRILL F/ 8157' - 8261, 104'/4 HR. 21'/HR WOB 20-22K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 169/154/160, OFF BOTTOM/ON BOTTOM 2072/2441 ,DIFF 200-350 , SLID 15' @ 330 AZM. ' 42/VIS 11.3/WT. 2% LCM
8/9/2010	0:00 - 4:30	4.50	DRLPRO	02	B	P		DRILL F/8261' - 8450', 189'/4.5 HR. 42'/HR WOB 20-22K ,RPM 60 ,MMRPM 95 ,SPM 120 ,GPM 454 ,UP/SO/ROT 173/156/164, OFF BOTTOM/ON BOTTOM 2100/2440 ,DIFF 200-350 , 42/VIS 11.3+/WT. 2% LCM
	4:30 - 6:00	1.50	DRLPRO	05	C	P		CIRCULATE AND CONDITION FOR A WIPER TRIP.
	6:00 - 12:00	6.00	DRLPRO	06	E	P		TOH LD MWD TOOLS AND MUD MOTOR. PU TRI-CONE BIT AND BS
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SERVICE WORKED BLIND RAMS

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 5/9/2010	End Date: 8/11/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 17:00	4.50	DRLPRO	06	E	P		TIH, NO PROBLEMS
	17:00 - 17:30	0.50	DRLPRO	03	E	P		WASHED 12' TO BOTTOM 11.4+ WT 43 VIS
	17:30 - 19:00	1.50	DRLPRO	05	C	P		CIRCULATED AND CONDITIONED F/ LOGS BOTTOMS UP GAS 7150 UNITS NON FLARING
	19:00 - 0:00	5.00	DRLPRO	06	B	P		PUMPED A 50 BBL. 12.4# PILL TOH F/ LOGS NO HOLE PROBLEMS
8/10/2010	0:00 - 3:30	3.50	DRLPRO	21	E	S		WAIT ON LOGGERS
	3:30 - 9:30	6.00	DRLPRO	11	C	P		SAFETY MEETING W/ BAKER ATLAS ,R/U & RUN TRIPLE COMBO LOGS TO 8471' ,LOG OUT ,(NO PROBLEMS)
	9:30 - 14:30	5.00	DRLPRO	06	A	P		P/U RERUN TRICONE & BIT SUB TIH, FILL PIPE @ SHOE & 5500' ,NO FILL ,(NO PROBLEMS)
	14:30 - 16:30	2.00	DRLPRO	05	C	P		CIRC ,SAFETY MEETING W/ KIMZEY & R/U L/D MACHINE
	16:30 - 0:00	7.50	DRLPRO	06	A	P		LDDP ,BREAK KELLY
8/11/2010	0:00 - 2:00	2.00	DRLPRO	06	A	P		L/D BHA ,PULL WEAR RING
	2:00 - 2:30	0.50	DRLPRO	12	A	P		SAFETY MEETING W/ CASERS & R/U
	2:30 - 8:30	6.00	DRLPRO	12	C	P		RUN 199 JTS 4.5,11.6,I-80 BT&C PRODUCTION CASING SHOE @ 8438.11, FLOAT @ 8394.36 ,MARKER @ 3960.66
	8:30 - 10:00	1.50	DRLPRO	05	D	P		CIRC F/ CEMENT ,SAFETY MEETING W/ BJ SERVICES
	10:00 - 13:00	3.00	DRLPRO	12	E	P		HOOK UP BJ ,PUMP 40 BBL SPACER,351 SX, 11.7 PPG,2.5 YLD LEAD, 1010 SX 14.3 PPG, 1.31 YLD TAIL DISPLACE W/ 130 BBLS CLAYTREAT WATER, BUMP PLUG @ 2800 PSI, FINAL LIFT 2300 PSI ,20 BBLS SPACER BACK TO PIT, EST TOP OF TAIL 3500' ,R/D CEMENTERS,L/D LANDING JOINT
	13:00 - 17:00	4.00	DRLPRO	14	A	P		NIPPLE DOWN , CLEAN PIT , RELEASE RIG @ 1700 TO FEDERAL 1022-27H

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 5/9/2010	End Date: 8/11/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 17:00	0.00	DRLPRO					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: SPUD DATE/TIME: 5/21/2010 21:00 SURFACE HOLE: Surface From depth: 40 Surface To depth: 1,900 Total SURFACE hours: 19.00 Surface Casing size: 8 5/8 # of casing joints ran: 42 Casing set MD: 1,868.0 # sx of cement: 100/LEAD 200/TAIL Cement blend (ppg:) 11#/LEAD 15.8/TAIL Cement yield (ft3/sk): 3.82/LEAD 1.15/TAIL # of bbls to surface: 0 TOPPED OF BY PETE MARTIN Describe cement issues: Describe hole issues: PRODUCTION: Rig Move/Skid start date/time: 8/1/2010 0:00 Rig Move/Skid finish date/time: 8/2/2010 15:00 Total MOVE hours: 39.0 Prod Rig Spud date/time: 8/3/2010 19:00 Rig Release date/time: 8/11/2010 17:00 Total SPUD to RR hours: 190.0 Planned depth MD 8,446 Planned depth TVD 8,446 Actual MD: 8,450 Actual TVD: 8,445 Open Wells $: $748,760 AFE $: $673,958 Open wells $/ft: $88.61 PRODUCTION HOLE: Prod. From depth: 1,864 Prod. To depth: 8,450 Total PROD hours: 99.5 Log Depth: 8471 Production Casing size: 4.5,11.6,I-80 BTC # of casing joints ran: 199 Casing set MD: 8,438.1 # sx of cement: 351 LEAD, 1010 TAIL Cement blend (ppg:) 11.7 LEAD ,14.3 TAIL Cement yield (ft3/sk): 2.5 LEAD ,1.31 TAIL Est. TOC (Lead & Tail) or 2 Stage : 400' LEAD , 3500' TAIL Describe cement issues: FULL RETURNS Describe hole issues: 2% LCM DIRECTIONAL INFO: KOP: Max angle: Departure: Max dogleg MD:
8/12/2010	-							

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 8/20/2010	End Date: 8/27/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/20/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, FLASH FLOODS DO NOT ENTER WASHES IF WATER IS RUNNING HIGH.
	7:15 - 15:00	7.75	COMP	30	A	P		ROAD RIG FROM NBU 1022-17O, MIRU SPOT EQUIP, PREP TO TALLY & PU TBG ON MONDAY.
8/23/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, RABBITTING TBG WATCH YOUR HANDS & FEET WHEN RABBIT COMES OUT OF TBG.
	7:15 - 15:00	7.75	COMP	31	I	P		TALLY & PU TBG TO 6,865', POOH, ND BOPS, NU FRAC VALVE, PREP TO PRESS TEST IN AM, SWI, SDFN.
8/24/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, STAY AWAY FROM PRESS ON WELL HEAD & LINES WHILE PRESS TESTING.
	7:15 - 15:00	7.75	COMP	33	C	P		MIRU B&C QUICK TEST & PRESS TEST CSG TO 7,000 PSI RDMO B&C QUICK TEST, MIRU SUPERIOR TO FRAC IN AM, SWI, SDFN.
8/25/2010	6:30 - 6:45	0.25	COMP	48		P		HSM, NEW EMPLOYEE'S KEEP A GOOD EYE ON THEM & EXPLAIN WHAT'S GOING ON.
	6:45 - 10:45	4.00	COMP	36	B	P		MIRU CUTTERS, PRIME UP PUMPING LINE & PRESS TEST SURFACE LINES TO 8,390 PSI W/ SUPERIOR. STAGE 1] PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. PERF MESA VERDE @ 8,297'-8,300' 4 SPF 12 HOLES, POOH 100' W/ WL, WHP 240 PSI, BRK DOWN BTM PERF W/ 4,798 PSI @ 4.7 BPM, ISIP 2,309 PSI, FG .72, RIH W/ WL PERF MESA VERDE @ 8,125'-27' 3 SPF 6 HOLES, 8,108'-10' 3 SPF 6 HOLES, TOTAL 24 HOLES. WHP= 1,600 PSI, BRK @ 3,998 PSI @ 4.7 BPM, AFTER FIRST BREAK DOWN OF BTM PERF. PUMP 100 BBLS @ 50.5 BPM 5,986 PSI,= 71% PERFS OPEN 17/24. SCREENED OUT W/ 32 BBLS LEFT IN FLUSH, FLOWED BACK FOR 25 MINUTES, REFLUSHED STAGE W/ 126 BBLS. MP 6,592 PSI MR 51.3 BPM, AP 5,136 PSI AR 44.8 BPM, ISIP 2,537 PSI, FG.75. NPI 228 PSI, PMPD 1,261 BBLS SW & 38,880 LBS OF 30/50 SND & 5,000 LBS OF RESIN SND. TOTAL PROP 43,880 LBS. NOTE PUMPED 3 ISOTOPES OF RA TRACER IN THIS STAGE. BLENDER DENSO NOT WORKING GOING OFF INLINE.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010	
Project: UTAH-UINTAH	Site: NBU 1022-27A		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 8/20/2010		End Date: 8/27/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:45 - 15:15	4.50	COMP	36	B	P		STAGE 2] PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET 8K CBP @ 7,745' & PERF MESA VERDE @ 7,714'-17' 4 SPF 12 HOLES, POOH 200' W/ WL, WHP 2,100 PSI, BTM PERF WOULDN'T BREAK DOWN, DUMP BAILED 4 GALLON'S ACID @ 7,714', BRK DOWN BTM PERF, W/ 6,879 PSI @ 4.7 BPM, ISIP 2,719 PSI, FG .80, RIH W/ WL PERF MESA VERDE @ 7,624'-27' 4 SPF 12 HOLES, TOTAL 24 HOLES. TRIED 8 TIMES TO BREAK DOWN, BAILED ACID, TOOK3 MORE TIMES TO BREAK DOWN. WHP= 2,320 PSI, BRK @ 5,715 PSI @ 4.7 BPM, AFTER FIRST BREAK DOWN OF BTM PERF. PUMP 100 BBLS @ 41 BPM 5,287 PSI,= 69% PERFS OPEN 16/24. MP 6,129 PSI MR 42.7 BPM, AP 5,320 PSI AR 41.2 BPM, ISIP 2,755 PSI, FG.80. NPI 36 PSI, PMPD 1,232 BBLS SW & 38,412 LBS OF 30/50 SND & 5,000 LBS OF RESIN SND. TOTAL PROP 43,880 LBS. NOTE PUMPED 3 ISOTOPES OF RA TRACER IN THIS STAGE. BLENDER DENSO NOT WORKING GOING OFF INLINE.
	15:15 - 16:30	1.25	COMP	36	B	P		STAGE 3] PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET 8K CBP @ 7,390' & PERF MESA VERDE @ 7,358'-60' 4 SPF 8 HOLES, POOH 200' W/ WL, WHP 1,320 PSI, BRK DOWN BTM PERF W/ 3,481 PSI @ 4.7 BPM, ISIP 1,558 PSI, FG .65, RIH W/ WL PERF MESA VERDE @ 7,174'-78' 4 SPF 16 HOLES, TOTAL 24 HOLES. WHP= 794 PSI, BRK @ 2,785 PSI @ 4.9 BPM, AFTER FIRST BREAK DOWN OF BTM PERF. PUMP 100 BBLS @ 50.9 BPM 6,451 PSI,= 70% PERFS OPEN 17/24. MP 6,461 PSI MR 51.3 BPM, AP 5,262 PSI AR 48.3 BPM, ISIP 2,278 PSI, FG.75. NPI 720 PSI, PMPD 668 BBLS SW & 19,294 LBS OF 30/50 SND & 5,000 LBS OF RESIN SND. TOTAL PROP 24,294 LBS. NOTE PUMPED 3 ISOTOPES OF RA TRACER IN THIS STAGE. BLENDER DENSO NOT WORKING GOING OFF INLINE.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010	
Project: UTAH-UINTAH	Site: NBU 1022-27A		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 8/20/2010		End Date: 8/27/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	16:30 - 18:00	1.50	COMP	36	B	P		STAGE 4] PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET 8K CBP @ 6,941' & PERF MESA VERDE @ 6,910'-12' 4 SPF 8 HOLES, POOH 200' W/ WL, WHP 1,805 PSI, BRK DOWN BTM PERF W/ 3,810 PSI @ 4.7 BPM, ISIP 2,416 PSI, FG .80, RIH W/ WL PERF MESA VERDE @ 6,669'-70' 4 SPF 4 HOLES, 6,639'-41' 3 SPF 6 HOLES, 6,624'-25' 4 SPF 4 HOLES, TOTAL 24 HOLES. TOOK 4 TIMES TO BREAK DOWN. WHP= 963 PSI, BRK @ 3,076 PSI @ 13.6 BPM, AFTER FIRST BREAK DOWN OF BTM PERF. PUMP 100 BBLS @ 50.5 BPM 5,736 PSI,= 79% PERFS OPEN 17/22. MP 6,005 PSI MR 51.5 BPM, AP 5,378 PSI AR 50.9 BPM, ISIP 2,352 PSI, FG.79. NPI -64 PSI, PMPD 1,264 BBLS SW & 42,972 LBS OF 30/50 SND & 5,000 LBS OF RESIN SND. TOTAL PROP 47,972 LBS. NOTE PUMPED 3 ISOTOPES OF RA TRACER IN THIS STAGE. BLENDER DENSO NOT WORKING GOING OFF INLINE. SWI, SDFN.
8/26/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, RIGGING DOWN FRAC EQUIP & WL EQIUP.
	7:15 - 15:00	7.75	COMP	36	B	P		WHP 1487 PSI. STAGE 5] PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET 8K CBP @ 5,288' & PERF WASATCH @ 5,250'-56' 4 SPF 24 HOLES, TOTAL 24 HOLES. WHP= 143 PSI, BRK @ 2,567 PSI @ 1.5 BPM, ISIP 1351 PSI , FG .70. PUMP 100 BBLS @ 40 BPM 3,292 PSI,= 74% PERFS OPEN 18/24. MP 4,354 PSI MR 55.8 BPM, AP 3,058 PSI AR 41.2 BPM, ISIP 1,504 PSI, FG.73. NPI 153 PSI, PMPD 516 BBLS SW & 11,975 LBS OF 30/50 SND & 5,000 LBS OF RESIN SND. TOTAL PROP 16,975 LBS. 4,300 LBS SHORT OF 30/50 SND. BLENDER DENSO NOT WORKING GOING OFF INLINE. TOTAL WATER 4,941 BBLS, SAND 176,533 LBS. SET TOP KILL 8K CBP @ 5,195', RD CUTTERS & SUPERIOR. RD FLOOR, ND FRAC VALVE, NU BOP & TEST TO 3,000 PSI, PU 3 7/8" BIT, POBS & TIH W/ 82 STDS OF TBG TO 5,150', RU POWER SWIVEL FOR DRLG CBP'S IN AM, SWI, SDFN.
8/27/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, HOUSE KEEPING

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 8/20/2010	End Date: 8/27/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 15:00	7.75	COMP	44	C	P		BREAK CIRC CONVENTIONAL START DRLG PLUGS. C/O 5' SAND, TAG 1ST PLUG @ 5,195' DRL PLUG IN 5 MIN. 0 PSI INCREASE RIH. C/O 20' SAND, TAG 2ND PLUG @ 5,288' DRL PLUG IN 6 MIN. 150 PSI INCREASE RIH. C/O 25' SAND, TAG 3RD PLUG @ 6,941' DRL PLUG IN 8 MIN. 250 PSI INCREASE RIH. C/O 30' SAND, TAG 4TH PLUG @ 7,390' DRL PLUG IN 10 MIN. 500 PSI INCREASE RIH. C/O 30' SAND, TAG 5TH PLUG @ 7,745' DRL PLUG IN 8 MIN. 300 PSI INCREASE RIH RIH TO PBTD @ 8,393' W/ 266 JTS 2 3/8" J-55 TBG, RD POWER SWIVEL, LD 26 JTS, LAND TBG W/ 240 JTS 2 3/8" J-55 TBG, EOT @ 7,581.37', SN @ 7,579.17'. RD FLOOR, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 1,000 PSI. TURN OVER TO FLOW BACK CREW. RD PARK RIG ON LOCATION MOVE MONDAY TO FEDERAL 1022-27H. SDFWE. KB= 18' 4 1/16 HANGER= .83' 240 JTS 2 3/8 J-55 = 7,560.34' PIPE DELIVERED: 286 JTS POBS= 2.20' PIPE USED: 240 JTS EOT @ 7,581.37' PIPE RETURNED: 46 JTS SN @ 7,579.17' TWTR= 4,941 BBLS TWR= 850 BBLS TWLTR= 4,091 BBLS
8/28/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 1600#, TP 700#, 20/64" CK, 28 BWPH, HVY SAND, - GAS TTL BBLS RECOVERED: 1889 BBLS LEFT TO RECOVER: 3052
8/29/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 1750#, TP 775#, 20/64" CK, 31 BWPH, HVY SAND, - GAS TTL BBLS RECOVERED: 2578 BBLS LEFT TO RECOVER: 2363
	8:57 -		PROD	50				WELL TURNED TO SALES @ 0857 HR ON 8/29/2010 - 820 MCFD, 840 BWPD, CP 1700#, FTP 800#, CK 20/64"
8/30/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 1600#, TP 725#, 20/64" CK, 21 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 3120 BBLS LEFT TO RECOVER: 1821
8/31/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 1500#, TP 700#, 20/64" CK, 20 BWPH, MED SAND, 900TH GAS TTL BBLS RECOVERED: 3663 BBLS LEFT TO RECOVER: 1278

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 8/20/2010	End Date: 8/27/2010
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/1/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 1350#, TP 650#, 20/64" CK, 12 BWPH, light SAND, - GAS TTL BBLS RECOVERED: 4038 BBLS LEFT TO RECOVER: 903
9/2/2010	7:00 -							WELL IP'D ON 9/2/10 - 961 MCFD, 0 BOPD, 480 BWPD, CP 1109#, FTP 506#, CK 20/64", LP 144#, 24 HRS

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 1022-27A	**Wellbore No.**	OH
Well Name	NBU 1022-27A	**Common Name**	NBU 1022-27A
Project	UTAH-UINTAH	**Site**	NBU 1022-27A
Vertical Section Azimuth	0.00 (°)	**North Reference**	True
Origin N/S	0.0 (ft)	**Origin E/W**	0.0 (ft)
Spud Date	5/21/2010	**UWI**	NBU 1022-27A
Active Datum	RKB @5,454.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	**Company**	PRO PETRO
Started	5/22/2010	**Ended**	
Tool Name	MMS	**Engineer**	Anadarko

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
14.00	0.00	0.00	14.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
5/22/2010	Tie On	14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/22/2010	NORMAL	514.00	0.40		514.00	1.75	0.00	1.75	0.08	0.08	0.00	0.00
	NORMAL	1,364.00	0.89		1,363.94	11.31	0.00	11.31	0.06	0.06	0.00	0.00
	NORMAL	1,914.00	1.10		1,913.86	20.86	0.00	20.86	0.04	0.04	0.00	0.00

2.2 Survey Name: Survey #2

Survey Name	Survey #2	**Company**	SCIENTIFIC
Started	8/4/2010	**Ended**	
Tool Name	MWD	**Engineer**	JARED

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
1,914.00	1.10	172.39	1,913.86	-10.31	2.26

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
8/4/2010	Tie On	1,914.00	1.10	172.39	1,913.86	-10.31	2.26	-10.31	0.00	0.00	0.00	0.00
8/4/2010	NORMAL	1,934.00	1.43	172.39	1,933.86	-10.75	2.32	-10.75	1.65	1.65	0.00	0.00
	NORMAL	2,252.00	1.99	174.14	2,251.71	-20.17	3.41	-20.17	0.18	0.18	0.55	6.20
	NORMAL	2,567.00	1.57	178.91	2,566.56	-29.93	4.05	-29.93	0.14	-0.13	1.51	162.94
	NORMAL	2,882.00	0.96	193.55	2,881.48	-36.81	3.51	-36.81	0.22	-0.19	4.65	159.27
	NORMAL	3,226.00	1.77	181.62	3,225.38	-44.92	2.69	-44.92	0.25	0.24	-3.47	-25.36
	NORMAL	3,511.00	1.96	155.83	3,510.24	-53.77	4.56	-53.77	0.30	0.07	-9.05	-90.34
8/5/2010	NORMAL	3,823.00	1.97	162.70	3,822.05	-63.75	8.34	-63.75	0.08	0.00	2.20	91.01
	NORMAL	4,139.00	1.56	146.50	4,137.90	-72.53	12.33	-72.53	0.20	-0.13	-5.13	-137.32
	NORMAL	4,458.00	1.69	149.08	4,456.78	-80.18	17.14	-80.18	0.05	0.04	0.81	30.66
	NORMAL	4,774.00	1.78	142.28	4,772.63	-88.06	22.54	-88.06	0.07	0.03	-2.15	-69.81
	NORMAL	5,089.00	2.57	144.18	5,087.40	-97.66	29.66	-97.66	0.25	0.25	0.60	6.17
	NORMAL	5,406.00	1.96	145.98	5,404.15	-107.92	36.86	-107.92	0.19	-0.19	0.57	174.25
	NORMAL	5,717.00	2.11	144.72	5,714.96	-117.00	43.14	-117.00	0.05	0.05	-0.41	-17.24
8/6/2010	NORMAL	6,005.00	2.31	137.71	6,002.74	-125.62	50.11	-125.62	0.12	0.07	-2.43	-57.04
	NORMAL	6,352.00	1.97	130.42	6,349.50	-134.66	59.35	-134.66	0.13	-0.10	-2.10	-144.92
	NORMAL	6,640.00	2.28	148.10	6,637.31	-142.73	66.15	-142.73	0.25	0.11	6.14	73.70
	NORMAL	6,956.00	2.59	163.19	6,953.02	-154.90	71.53	-154.90	0.22	0.10	4.78	71.86
8/7/2010	NORMAL	7,271.00	3.07	160.99	7,267.64	-169.69	76.34	-169.69	0.16	0.15	-0.70	-13.85
	NORMAL	7,588.00	2.44	153.79	7,584.27	-183.77	82.09	-183.77	0.23	-0.20	-2.27	-154.78
	NORMAL	7,903.00	2.21	146.15	7,899.01	-194.83	88.43	-194.83	0.12	-0.07	-2.43	-130.35
8/8/2010	NORMAL	8,219.00	3.31	144.84	8,214.64	-207.35	97.08	-207.35	0.35	0.35	-0.41	-3.94
8/9/2010	NORMAL	8,397.00	4.18	140.49	8,392.26	-216.56	104.16	-216.56	0.51	0.49	-2.44	-20.26
	NORMAL	8,450.00	4.18	140.90	8,445.12	-219.55	106.61	-219.55	0.06	0.00	0.77	90.20

Federal Approval of this Action is Necessary

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU-0473

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-27A

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047500980000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ **NOTICE OF INTENT** Approximate date work will start: 7/5/2011	☐ ACIDIZE	☐ ALTER CASING	✓ CASING REPAIR
☐ **SUBSEQUENT REPORT** Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ **SPUD REPORT** Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ **DRILLING REPORT** Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Wellhead Repair

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 07/11/2011

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 7/5/2011

RECEIVED Jul. 05, 2011

WORKORDER #: 88119335

Name: NBU 1022-27A 7/1/2011
Surface Location: NENE Sec. 27, T10S, R22E
Uintah County, UT

API: 4304750098 **LEASE#:** UTU-473

ELEVATIONS: 5436' GL 5454' KB

TOTAL DEPTH: 8450' **PBTD:** 8394'

SURFACE CASING: 8 5/8", 28# J-55 @ 1884'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 8438'
TOC @ 710' per CBL (with min 50' isolation)

PERFORATIONS: Wasatch 5250' – 5256'
Mesaverde 6624' – 8300'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
8.625" 28# J-55	8.097	1370	2950	2.6223	0.3505	0.0624
Annular Capacities						
2.375" tbg. X 4 ½" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

1026' Green River
1306' Bird's Nest
1711' Mahogany
4011' Wasatch
6247' Mesaverde

RECEIVED Jul. 05, 2011

NBU 1022-27A– WELLHEAD REPAIR PROCEDURE

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~5200'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

RECEIVED Jul. 05, 2011

CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.

2. POOH, LD cutters and casing.

3. PU 7 3/8" overshot with 4 ½" right hand standard wicker grapple, 1 - 4 ¾" drill collar with 3 ½" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshot, POOH, and lay down.

4. TIH w/ skirted mill and dress off the fish top for approximately ½ hour. TOOH.

5. PU & RIH w/ 4 ½" 10k external casing patch on 4 ½" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.

6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.

7. Install slips. Land casing w/ 80,000# tension.

8. Cut-off and dress 4 ½" casing stub.

9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~5150'. Clean out to PBTD (8394').

10. POOH, land tbg and pump off POBS.

11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.

2. POOH, LD cutters and casing.

3. PU 4 ½" overshot. RIH, latch fish. Pick string weight to neutral.

4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.

5. Back-off casing, POOH.

RECEIVED Jul. 05, 2011

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ±7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.

7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.

8. Install slips. Land casing w/ 80,000# tension.

9. Cut-off and dress 4 ½" casing stub.

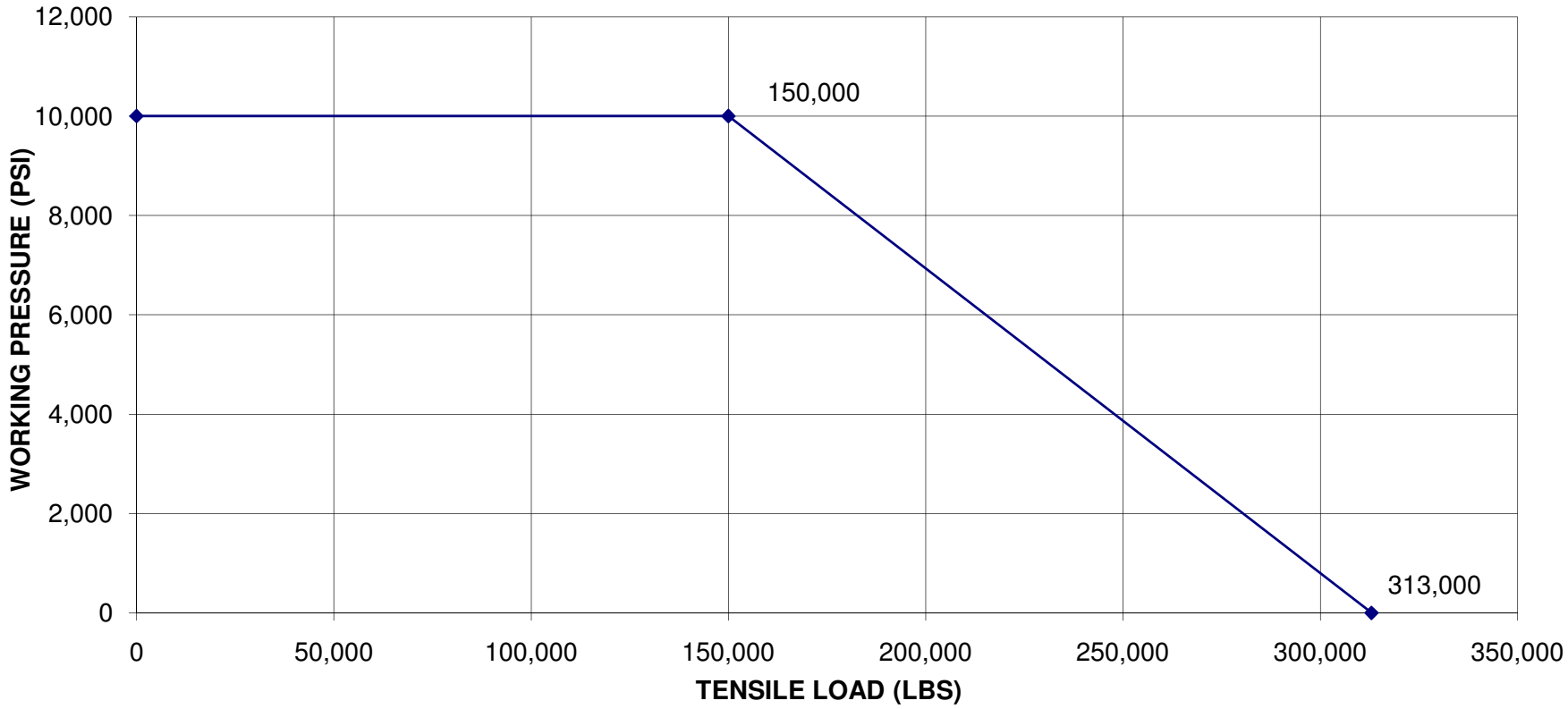
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~5150'. Clean out to PBTD (8394').

11. POOH, land tbg and pump off POBS.

12. NUWH, RDMO. Turn well over to production ops.

RECEIVED Jul. 05, 2011

STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

Logan High Pressure Casing Patches
Assembly Procedure

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type “L” Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.

2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type “L” Packers.

3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.

4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.

5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.

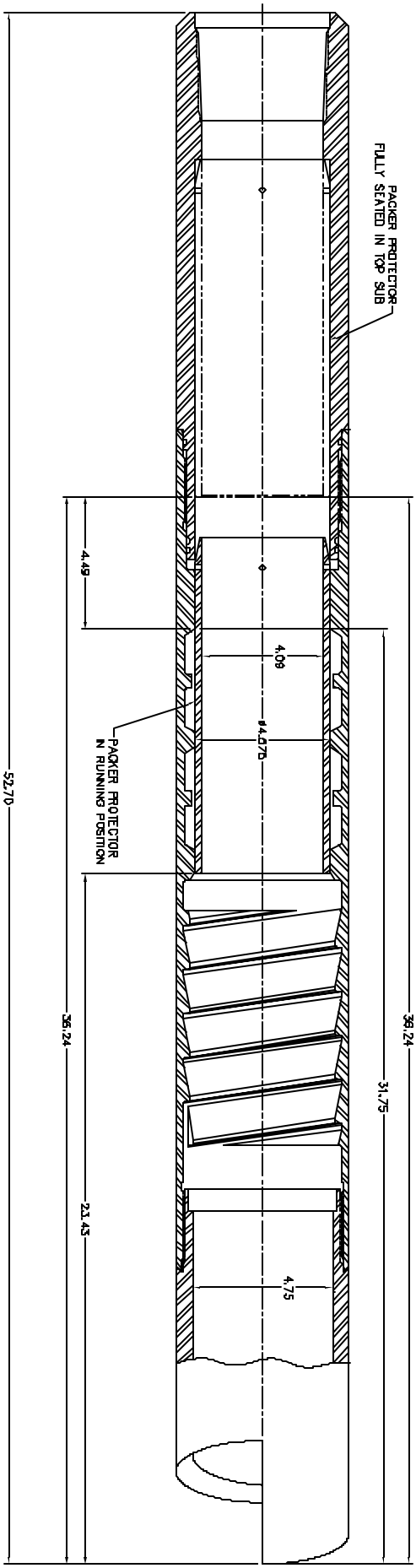
6. Install the Cutlipped Guide into the lower end of the Bowl.

7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.

8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.

RECEIVED Jul. 05, 2011



510L-005-001 4-1/2" LOGAN HP CASING PATCH

RECEIVED Jul. 05, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☑ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 9/21/2011	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator has concluded the wellhead/casing repairs on the subject well location. Please see that attached chronological history for details of the operations.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 18, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 7/17/2012

RECEIVED: Jul. 17, 2012

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: LEED 698/698
Event: WELL WORK EXPENSE	Start Date: 9/19/2011	End Date: 9/21/2011
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/19/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW RU.
	7:30 - 9:00	1.50	MIRU	30	A	P		MIRU.
	9:00 - 10:00	1.00	ALL	30	F	P		FCP. 54 PSI. FTP. 54 PSI. BLEW TBG DWN, CONTROL TBG W/ 10 BBLS, ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT, UNLAND TBG HANGER.
	10:00 - 12:00	2.00	ALL	31	I	P		POOH 240 JTS. 2-3/8 J-55 TBG, LD XN.
	12:00 - 15:00	3.00	ALL	34	I	P		RU J-W WIRELINE COMPANY, RIH & SET CIBP @ 5200', POOH, RU J-W WIRELINE COMPANY, FILL CSG W/ T-MAC, P.T. PLUG TO 3000 PSI. HELD, SWI, SDFN.
9/20/2011	7:00 - 7:15	0.25	ALL	48		P		HSM, REVIEW BACK-OFF PROCEDURE
	7:15 - 7:30	0.25	ALL	47	A	P		ND BOP'S, ND CSG BOWL, RU PWR SWVL.
	7:30 - 8:00	0.50	ALL	31	B	P		PU INTERNAL CSG CUTTERS & RIH, CUT CSG @ 3' F/ SURFACE, POOH, LD CUTTER & CSG MANDRAL, RD PWR SWVL, PU 4-1/2 OVERSHOT, RIH, LATCH FISH, RU CSG CREW & WIRELINE SERVICES, STRING SHOT CSG COLLAR, BACK-OFF CSG PUP JNT, POOH, PU NEW 10' CSG PUP JNT, TAG CSG TOP, THREAD INTO CSG, TORQUE CSG TO 7000# W/ 25 ROTATIONS, PU 100,000# TENSION.
	8:00 - 9:15	1.25	ALL	33	C	P		RU B&C QUICK TEST, P.T.4-1/2 CSG TO 1000 PSI. FOR 15 MINS, LOST 7.5 PSI. IN 15 MINS, P.T. 4-1/2 CSG TO 3500 PSI. FOR 30 MINS, LOST 20 PSI. IN 30 MINS, RD B&C QUICK TEST.
	9:15 - 11:10	1.92	ALL	47	C	P		SET C-21 SLIPS W/ 90,000# TENSION, CUT-OFF & DRESS 4-1/2 CSG STUB, INSTALL FLANGE & CROSSOVER SPOOL, NU CSG BOWL & BOP'S, RU FLOOR & TBG EQUIPMENT.
	11:10 - 12:30	1.33	ALL	31	I	P		PU 3-7/8 MILL & RIH W/ 165 JTS. 2-3/8 J-55 TBG, TAG CIBP @ 5200'
	12:30 - 13:30	1.00	ALL	44	C	P		RU PWR SWVL, RU TECH FOAM, EST CIRC IN 20 MINS, D/O CIBP @ 5200' IN 22 MINS, HAD 25 PSI. INCREASE, LD PWR SWVL,
	13:30 - 17:00	3.50	ALL	31	I	P		RIH 75 JTS. 2-3/8 J-55 TBG, F/ DERRICK, PU 26 JTS. 2-3/8 J-55 TBG F/ TRAILER, TAG PBTD @ 8394' W/ 266 JTS. LD 1 JNT, CIRC HOLE CLEAN, RD PWR SWVL, POOH LD 25 JTS. 2-3/8 J-55 TBG ON TRAILER, POOH 144 JTS. TBG, EOT @ 3034' W/ 96 JTS. LEFT, SWI, SDFN.
9/21/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW TRIPPING TBG & BROACHING TBG.

RECEIVED: Jul. 17, 2012

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud Date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig Name No: LEED 698/698
Event: WELL WORK EXPENSE	Start Date: 9/19/2011	End Date: 9/21/2011
Active Datum: RKB @5,454.01ft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 12:00	4.50	ALL	31	I	P		BLEW TBG DWN, CONTROL TBG W/ 10 BBLS, POOH 96 JTS. LD MILL, PU 1.875 XN HALF POBS & RIH 120 JTS. 2-3/8 J-55 TBG, RU SWAB EQUIPMENT, RIH 1.9 BROACH TO EOT @ 3780', POOH & LD SWAB EQUIPMENT, RIH 120 JTS. 2-3/8 J-55 TBG, RU SWAB EQUIPMENT, RIH W 1.9 BROACH TO EOT @ 3780', POOH & RD SWAB EQUIPMENT, LAND TBG HANGER, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, RDMO, MOVE TO NBU 1022-22P. TBG DETAIL KB————————————————————18' HANGER————————————————————.83" 240 JTS. 2-3/8 J-55 TBG @————7560.34' 1.875 XN HALF POBS————————————2.20' EOT @————————————————————7581.37' WLTR. 45 BBLS. TOP PERF @ 5250' BTM PERF @ 8300' PBTD @ 8394' API # 4304750098-00-S1

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6100

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304750098	NBU 1022-27A	NENE	27	10S	22E	UINTAH

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
B	99999	2900	5/19/2010	6/7/10

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 5/19/2010 AT 09:00 HRS.

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304750096	FEDERAL 1022-27H	SENE	27	10S	22E	UINTAH

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
A	99999	17626	5/19/2010	6/7/10

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 5/19/2010 AT 14:00 HRS.

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

ACTION CODES:
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

ANDY LYTLE
Name (Please Print)
Signature
REGULATORY ANALYST
Title
5/20/2010
Date

RECEIVED
MAY 25 2010
DIV. OF OIL, GAS & MINING

(5/2000)

Sundry Number: 62856 API Well Number: 43047500980000

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6100

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/23/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	✓ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP respectfully requests to plug and abandon the NBU 1022-27A well. Please see the attached procedure for details. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 07, 2015

By: Dark K Quist

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jennifer Thomas	720 929-6808	Regulatory Specialist
SIGNATURE N/A		**DATE** 4/23/2015

RECEIVED: Apr. 23, 2015

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047500980000

A 100' plug should be placed @6600' to isolate the open perfs in the Mesaverde formation as required by R649-3-24-3.2.

RECEIVED: May. 07, 2015

NBU 1022-27A

1058' FNL & 413' FEL
NENE - Sec. 27 – T10S - R22E
Uintah County, UT

KBE:	5454'	**API NUMBER:**	43-047-50098
GLE:	5436'	**LEASE NUMBER:**	UTU-473
TD:	8450'	**WI:**	100.000000%
PBTD:	8394'	**NRI:**	83.490537%

CASING:

11" hole
8.625" 28# J-55 ST&C @ 1884'
Cemented with 170 sxs Class G HiFill (11 ppg/3.82 yield) & 200 sxs "G" (15.8 ppg/1.15 yield). . Circulated to surface. Cement to pit. Pumped 125 sxs of 4% 15.8 down 1". TOC @ surface.

7.875" hole
4.5" 11.6# I-80 BT&C @ 8438'. Cemented with 351 sxs "G" prem Lite lead (11.7 ppg/2.5 yield) and 1010 sxs 50-50 Pozmix tail (14.3 ppg/1.31 yield). No cement to surface. TOC @ ±500' per CBL

TUBING:

2.375" 4.7# J-55 tubing @ 7581'.

Tubular/Borehole	**Drift inches**	**Collapse Psi**	**Burst Psi**	**Capacities**		
				Gal./ft.	**Cuft/ft.**	**Bbl./ft.**
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80 csg	3.875	6350	7780	0.6528	0.0872	0.01554
Annular Capacities						
2.375" tbg. X 4.5" 11.6# csg.				0.4227	0.0565	0.0101
4.5" csg. X 8.625" 28# csg.				1.7961	0.2401	0.0428
4.5" csg. X 7.875" hole				1.7052	0.2276	0.0406
8.625" csg. X 11" hole				1.9017	0.2542	0.0453

RECEIVED: Apr. 23, 2015

PERFORATION DETAIL:

Formation	Date	Top	Bottom	SPF	STATUS
Wasatch	8/20/2010	5250	5256	4	Open
Mesaverde	8/20/2010	6624	6625	4	Open
Mesaverde	8/20/2010	6639	6641	3	Open
Mesaverde	8/20/2010	6669	6670	4	Open
Mesaverde	8/20/2010	6910	6912	4	Open
Mesaverde	8/20/2010	7174	7178	4	Open
Mesaverde	8/20/2010	7358	7360	4	Open
Mesaverde	8/20/2010	7624	7627	4	Open
Mesaverde	8/20/2010	7714	7717	4	Open
Mesaverde	8/20/2010	8108	8110	3	Open
Mesaverde	8/20/2010	8125	8127	3	Open
Mesaverde	8/20/2010	8297	8300	4	Open

GEOLOGIC INFORMATION:

Formation	**Depth to top, ft.**
Uinta	**Surface**
Green River	**1026’**
Bird’s Nest	**1306’**
Mahogany	**1651’**
Base of Parachute	**’**
Wasatch	**4011’**
Mesaverde	**6229’**

SS- 144 Base of BMSW
BMSW Depth **~3100’ KBE**

RECEIVED: Apr. 23, 2015

WELL HISTORY

Completion – Aug 2010

- Frac'd Wasatch and MV. C/O to 8393'. PU 2.375" J-55 tubing and land at 7581'.

Gyro – 9/8/2010

- Run a Gyro to 8397'

Workover – Sept 2011 (Replaced wellhead)

- POOH with tbg. RIH with a CIBP & set @ 5200'.
- Cut casing @ 3' from surface. RIH and backed off casing pup joint (10'). RIH with new 10' casing pup jt and threaded into csg.
- Pressure tested casing to 3500 psi for 30 min (lost 20 psi).
- RIH and D.O. CIBP and C/O to 8394'.
- Landed 2 3/8" J-55 tubing at 7581'. RTP.

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PLUG & ABANDONMENT PROCEDURE

GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDE. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY APPROPRIATE AGENCY 24 HOURS BEFORE MOVING ON LOCATION.

PROCEDURE
Note: Approx. **137 sxs** Class "G" cement.
Note: A gyro survey was run on this well to 8397' on 9/8/2010.

NO GYRO IS NEEDED.

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.

1. POOH W/ TBG & LAY DOWN. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL.

2. **PLUG #1, ISOLATE PERFORATIONS (5250'-8300') & TOP OF MESAVERDE (6229'):** TIH AND SET A CIBP @ 5205'. SET CIBP & PUH 10'. CIRCULATE ENTIRE HOLE W/ TREATED FRESH WATER. PRESSURE TEST CASING. SET A ±105' CEMENT BALANCED PLUG (**8 SXS, 9.2 CUFT, 1.6 BBLS**) ON TOP OF CIBP. **TOC @ ±5100'.**

3. **PLUG #2, PROTECT WASATCH TOP (4011'):** TOOH TO 4111'. SET A CEMENT BALANCED PLUG FROM **4111' – 3901'** (210' COVERAGE) WITH **(16 SXS / 18.3 CUFT / 3.3 BBL).**

4. **PLUG #3, PROTECT BMSW (~3100'):** SET A BALANCED CEMENT PLUG FROM **3200' – 2990** (210' COVERAGE) WITH **(16 SXS / 18.3 CUFT / 3.3 BBL).**

5. **PLUG #4, PROTECT BASE OF PARACHUTE (~2498'):** SET A BALANCED CEMENT PLUG FROM **2598' – 2388** (210' COVERAGE) WITH **(16 SXS / 18.3 CUFT / 3.3 BBL).**

6. **PLUG #5, SURFACE CASING PLUG (1884'):** SET A BALANCED CEMENT PLUG FROM **1884' – 1831** (53' COVERAGE) WITH **(4 SXS / 4.6 CUFT / 1 BBL).**

7. **PLUG #6, PROTECT MAHOGANY (~1651'):** SET A BALANCED CEMENT PLUG FROM **1751' – 1541** (210' COVERAGE) WITH **(16 SXS / 18.3 CUFT / 3.3 BBL).**

8. **PLUG #7, PROTECT TOP OF BIRD'S NEST (~1306'):** SET A BALANCED CEMENT PLUG FROM **1406' – 1196** (210' COVERAGE) WITH **(16 SXS / 18.3 CUFT / 3.3 BBL).**

9. **PLUG #8 TOP OF GREEN RIVER (1026'):** SET A BALANCED CEMENT PLUG FROM **1126' – 916** (210' COVERAGE) WITH **(16 SXS / 18.3 CUFT / 3.3 BBL).**

10. **PLUG #9, FILL SURFACE HOLE & ANNULUS:** POOH. PERF CASING @ 100' AND PUMP **29 SXS / 33.2 CUFT / 5.91 BBLS** / OR SUFFICIENT VOLUME TO FILL 4 ½" CASING AND 4.5" X 8.625" ANNULUS F/ 100' TO SURFACE.

11. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.

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12. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

RBM 4/23/15

RECEIVED: Apr. 23, 2015

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0473

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-27A

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047500980000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6100

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1058 FNL 0413 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 6/30/2015	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☑ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP has plugged and abandoned the NBU 1022-27A well. Please see the attached operations summary report for details. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 08, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jennifer Thomas	720 929-6808	Regulatory Specialist
SIGNATURE N/A		**DATE** 7/6/2015

RECEIVED: Jul. 06, 2015

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig name no.: MILES 2/2
Event: ABANDONMENT	Start date: 6/29/2015	End date: 6/30/2015
Active datum: RKB @5,454.00usft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
6/25/2015	7:00 - 11:00	4.00	ABANDP	35		P		Drove to loc. Rigged up, well had 2200 PSI on tubing and 1500 PSI on casing , while blowing down well, viper plunger came up in 20 minutes. Blew well to tank again to see if any other plungers come up or to blow down, well dropped to 60 PSI on tubing but started slugging water and jumped up to 500 PSI. Blew down casing while running in hole to keep tubing pressure from climbing to the point it would blow me out of the hole. RIH w/JDC to 6260', hit hard but continued to drop to 6280', could not go any further (might have hit a stuck plunger), POOH. Rigged down, traveled to yard. Was in contact with John Young and Mike Merril during slickline operation.
6/29/2015	7:00 - 7:15	0.25	ABANDP	48		P		HSM, SLIPS, TRIPS & FALLS, SCAN TBG, W/L
	7:15 - 9:30	2.25	ABANDP	30	A	P		MIRU, SPOT EQUIP, CONTROL WELL W/ 20 BBLS DOWN TBG & CSG, ND WH, NU BOP & TEST TO 3,000 PSI,
	9:30 - 13:30	4.00	ABANDP	45	A	P		MIRU SCAN TECH, POOH SCANNED 240 JTS TBG, 104 JTS YELLOW, 62 JTS YELLOW ((NO DRIFT)), 74 JTS RED, MED INTERNAL SCALE JTS 105 - 240, MED EXTERNAL SCALE JTS 167 - 206, HEAVY EXTERNAL SCALE JTS 207 - 240, JTS 105 - 166 NO DRIFT, RDMO SCAN TECH
	13:30 - 15:30	2.00	ABANDP	34	I	P		MIRU CASEDHOLE, PU & RIH W/ 3.62" G/R TITE @ TOP PERF @ 5250' WORKED THRU RIH TO 5710' GOT STUCK PULLED OUT OF ROPE SOCKET, DICUSSED W/ ENGINEER & BLM REP. DECIDED TO LEAVE G/R, 5' WEIGHT BAR, COLLAR LOCATOR & CABLE HEAD IN HOLE, RIH & SET CIBP @ 5205', POOH RDMO WITTNESSED BY BLM REP. STONEY ANDERTON
	15:30 - 17:30	2.00	ABANDP	31	I	P		TALLY & RIH W/ 165 JTS TBG EOT @ 5200', RU & ROLL HOLE W/ 80 BBLS TMAC, SWI SDFN, READY TO PUMP CMT PLUGS IN AM
6/30/2015	7:00 - 7:15	0.25	ABANDP	48		P		HSM, SLIPS, TRIPS & FALLS, CMT, L/D TBG

RECEIVED: Jul. 06, 2015

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-27A	Spud Conductor: 5/19/2010	Spud date: 5/21/2010
Project: UTAH-UINTAH	Site: NBU 1022-27A	Rig name no.: MILES 2/2
Event: ABANDONMENT	Start date: 6/29/2015	End date: 6/30/2015
Active datum: RKB @5,454.00usft (above Mean Sea Level)	UWI: NBU 1022-27A	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:15 - 17:00	9.75	ABANDP	51	D	P		BRK CIRC, P/T 4 1/2" CSG TO 500 PSI FOR 5 MIN, GOOD MIRU PROPETRO, PRIME & P/T LINES, PLUG # 1) PUMP 2.6 BBLS FRESH, 2 BBLS 15.8# CMT 10 SX, DISP W/ 1 BBL FRESH, 18.5 BBLS TREATED WTR, COVERAGE 5067' TO 5200', L/D 34 JTS EOT @ 4129'. PLUG # 2) PUMP 2.6 BBLS FRESH, 4.1 BBLS 15.8# CMT 20 SX, DISP W/ 1 BBL FRESH, 13.8 BBLS TREATED WTR, COVERAGE 3864' TO 4129', L/D 29 JTS EOT @ 3215'. PLUG # 3) PUMP 2.6 BBLS FRESH, 4.1 BBLS 15.8# CMT 20 SX, DISP W/ 1 BBL FRESH, 10.3 BBLS TREATED WTR, COVERAGE 2950' TO 3215', L/D 17 JTS EOT @ 2617'. PLUG # 4) PUMP 2.6 BBLS FRESH, 4.1 BBLS 15.8# CMT 20 SX, DISP W/ 1 BBL FRESH, 7.9 BBLS TREATED WTR, COVERAGE 2352' TO 2617', L/D 21 JTS EOT @ 1956'. PLUG # 5) PUMP 2.6 BBLS FRESH, 7.2 BBLS 15.8# CMT 35 SX, DISP W/ 1 BBL FRESH, 4.5 BBLS TREATED WTR, COVERAGE 1493' TO 1956', L/D 17 JTS EOT @ 1421'. PLUG # 6) PUMP 2.6 BBLS FRESH, 8.2 BBLS 15.8# CMT 40 SX, DISP W/ 1 BBL FRESH, 2.2 BBLS TREATED WTR, COVERAGE 892' TO 1421', L/D 17 JTS, FLUSH TBG & CSG, L/D ALL TBG. RU CASEDHOLE, RIH W/ PERF GUN & PERF 4 1/2" CSG @ 100' W/ 4SPF, POOH, RDMO BRK CIRC UP ANN BETWEEN 8 5/8" & 4 1/2" CSG, 2 BBLS PLUG # 7) PUMP 12.2 BBLS 15.8# W 4% CAL 60 SX CMT TO SURFACE, RD RIG, DIG UP WH & CUT OFF, CMT @ SURFACE, WELD ON MARKER PLATE 3' BELOW SURFACE. ROAD RIG TO NBU 1022-3G3T WITTNESSED BY BLM REP: STONEY ANDERTON